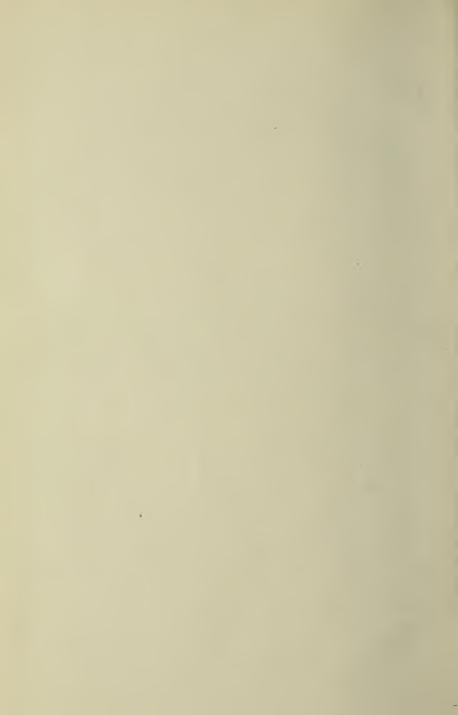


Utah agricultura Conge.









COLLEGE BULLETINS,

Issued Quarterly. Vol. 13, No. 1,

July, 1913

CATALOGUE

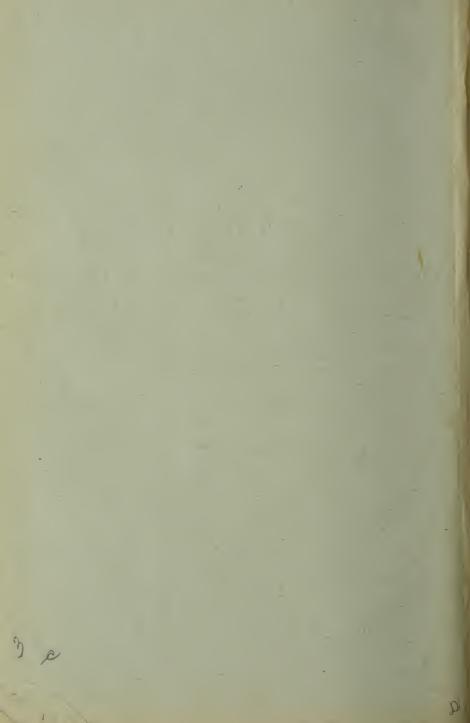
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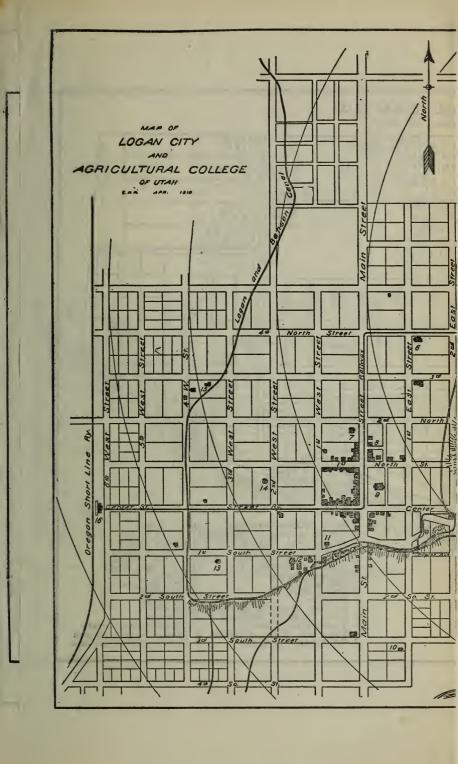
AGRICULTURAL COLLEGE OF UTAH

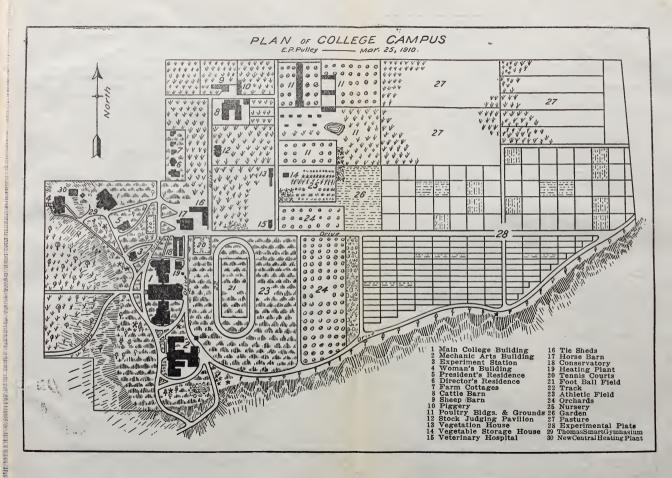
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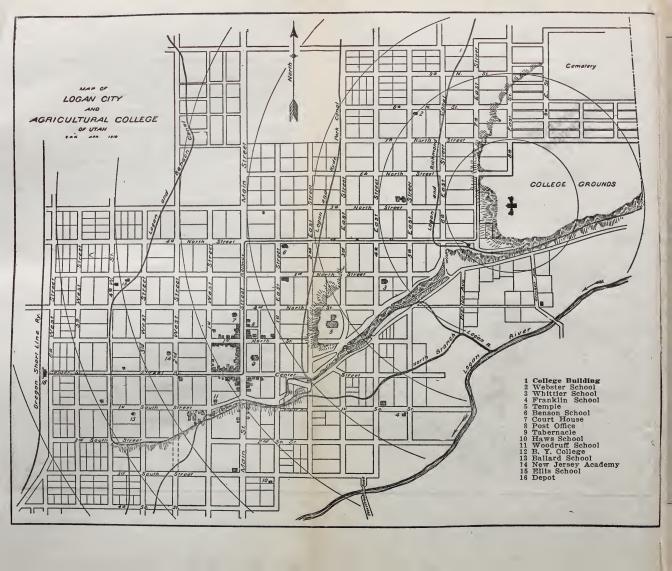
1913-1914

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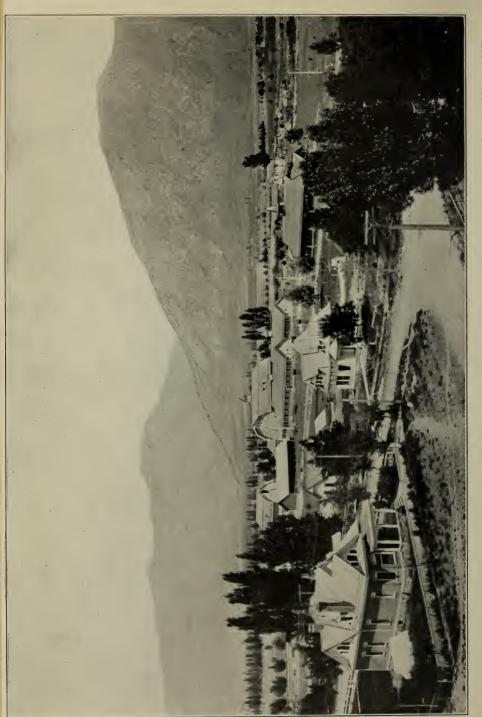








MAIN BUILDING.



A BIRDSEYE VIEW OF SOME OF THE COLLEGE RESIDENCES, THE BARNS, AND POULTRY PLANT.

CATALOGUE

OF THE

AGRICULTURAL COLLEGE OF UTAH

FOR

1913-1914

With List of Students for 1912-1913

LOGAN, UTAH

Published by the College July, 1913

1913.

JANUARY	APRIL	JULY	OCTOBER
S M T W T F S 1 2 3 4 5 6 7 8 9 10 11	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12	S M T W T F 8 1 2 3 4 5 6 7 8 9 10 11
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FEBRUARY	MAY	AUGUST	NOVEMBER
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MARCH	JUNE	SEPTEMBER	DECEMBER
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1914.

JANUARY	APRIL	JULY	OCTOBER
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College Calendar, 1913-1914

FIRST TERM

1913.

September 23, Tuesday:

Entrance examinations. Registration of former students, and of new students admitted on

certificates.

September 24, Wednesday: November 27, Thursday: December 20, Saturday:

Classes organized. Thanksgiving Day. Christmas recess begins.

1914.

January 7, Tuesday: January 31, Saturday: Instructions resumed. First term ends.

SECOND TERM.

February 3, Tuesday: February 12, Thursday: February 22, Sunday: April 15, Wednesday:

Second term begins. Lincoln's Birthday. Washington's Birthday. Arbor Day.

June 1, Monday: June 7, Sunday:

Summer School begins. Baccalaureate sermon. Class Day.

June 8, Monday: June 9, Tuesday:

Commencement, Alumni Ban-

quet and Ball.

ANNUAL FARMERS' ROUND-UP.

U. A. C., LOGAN.

Tuesday, January 26, to Friday, February 6, 1914.

AT RICHFIELD.

Wednesday, February 11, to Saturday, February 21, 1914.

AT CEDAR CITY.

Monday, March 2, to Saturday, March 14, 1914.

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Board of Trustees.

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LORENZO N. STOHL
THOMAS SMART Logan
JOHN O ADAMS Logan ELYZABETH C. McCUNE Salt Lake City J. W. N. WHITECOTTON Provo
ELYZABETH C. McCUNESalt Lake City
J. W. N. WHITECOTTONProvo
JOHN DERN' Salt Lake City
JOHN DERN. Salt Lake City JOHN C. SHARP. Salt Lake City ANGUS T. WRIGH? Ogden
J. M. PETERSON Richfield
HAZEL L. DUNFORDSalt Lake City
GEORGE T. ODELL Salt Lake City JOSEPH QUINNEY, JR. Logan
JOSEPH QUINNEY, JRLogan
DAVID MATTSON, Secretary of State, Ex-officio Salt Lake City
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ELIZABETH C. McCUNEVice President
JOHN T. CAINERecording Secretary and Auditor
JOHN L. COBURNFinancial Secretary
ALLAN M. FLEMINGTreasurer
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Committee on Home Economics,
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Joseph Quinney, Jr., John Q. Adams, J. M. Peterson.
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Hazel L. Dunford, Jol.n Q. Adams, George T. Odell.
Committee on Buildings and Grounds,
Thomas Smart, John Q. Adams, John Dern, Joseph Quinney, Jr.
Committee on Branch at Cedar City,
J. M. Peterson, Joseph Quinney, Jr., Hazel L. Dunford.
Committee on Legislation and Finance,
David Mattson, John Dern, John C. Sharp, George T. Odell. Auditor,
J. W. N. Whitecotton.

Officers of Administration and Instruction.*

The College Faculty.

(Arranged in Groups in the Order of Seniority of Appointment.)

JOHN ANDREAS WIDTSOE, A. M., Ph. D., PRESIDENT.

WILLARD SAMUEL LANGTON, A. M.,†

Professor of Mathematics.

ELMER DARWIN BALL, M. Sc., Ph. D. DIRECTOR, EXPERIMENT STATION AND DIRECTOR, SCHOOL OF AGRICULTURE.

GEORGE WASHINGTON THATCHER, Professor of Music.

GEORGE THOMAS, A. M., Ph. D., DIRECTOR, SCHOOL OF COMMERCE.

Professor of Economics.

WILLIAM PETERSON, B. S., *Professor of Geology*.

HYRUM JOHN FREDERICK, D. V. M., Professor of Veterinary Science.

FRANK RUSSELL ARNOLD, A. M., Professor of Modern Languages.

^{*}The College Council consists of the President, the Registrar, (ex-officio), all members of the Faculty of the rank of Professor, Associate Professor or Assistant Professor.

[†]On leave of absence.

JAMES CHRISTIAN HOGENSON, M. S. A., Agronomist, Extension Division.

JOHN THOMAS CAINE, B. S., AUDITOR, SECRETARY OF THE BOARD OF TRUSTEES.

EDWARD GAIGE TITUS, M. S., Sc. D., Professor of Zoology and Entomology.

ROBERT STEWART, Ph. D.,
ASSISTANT DIRECTOR, EXPERIMENT STATION.

Professor of Chemistry.

JOHN THOMAS CAINE, III., M. S. A., ASSISTANT DIRECTOR, EXTENSION DIVISION.

Professor of Animal Husbandry.

FRANKLIN LORENZO WEST, Ph. D., DIRECTOR, SCHOOL OF GENERAL SCIENCE.

Professor of Physics.

CLAYTON TRYON TEETZEL, LL. B., Professor of Physical Education.

LEON D. BATCHELOR, M. S., Ph. D., *Professor of Horticulture*.

ELMER GEORGE PETERSON, A. M., Ph. D., DIRECTOR, EXTENSION DIVISION.

FRANKLIN STEWART HARRIS, Ph. D., DIRECTOR, SCHOOL OF AGRICULTURAL ENGINEERING.

Professor of Agromony.

ROBERT J. BINFORD, First Lieutenant, Infantry, U. S. A. Professor of Military Science and Tactics.

BLANCHE COOPER, B. S.,

Professor of Home Construction and Sanitation.

JOSEPH EAMES GRAVES, M. S., Ph. D.,

Professor of Bacteriology and Physiological Chemistry.

CALVIN FLETCHER, B. Pd., Professor of Applied Art.

RAY BENEDICT WEST, C. E., Professor of Agricultural Engineering.

ROBERT JAMES EVANS, Ph. D., State Leader in Farm Management.

GEORGE RICHARD HILL, Ph. D., Professor of Botany.

JAMES HENRY LINFORD, D. Did.,

DIRECTOR OF SUMMER SCHOOL.

Superintendent, Correspondence Study Department.

ARTHUR HERBERT SAXER, M. S., Professor of Mathematics.

Professor of Foods and Cookery.

N. ALVIN PEDERSON, A. M., Professor of English.

WM. E. CARROLL, M. S.,*
ASSISTANT DIRECTOR, SCHOOL OF AGRICULTURE.
Associate Professor of Animal Husbandry.

CHARLES WALTER PORTER, A. M., DIRECTOR, SCHOOL OF HOME ECONOMICS.

Associate Professor of Chemistry.

JONATHAN SOCKWELL POWELL.

Associate Professor of Fine Art.

RHODA BOWEN COOK,

Assistant Professor of Domestic Art.

ELIZABETH CHURCH SMITH, B. L., LIBRARIAN.

^{*}On leave of absence.

GEORGE B. HENDRICKS, A. M., Assistant Professor of Economics.

PARLEY ERASTUS PETERSON, A. B., Assistant Professor of Accounting.

GEORGE C. JENSEN, A. M., Assistant Professor of Modern Languages.

AUGUST J. HANSEN, B. S., Assistant Professor of Mechanic Arts.

FRANKLIN D. DAINES, A. M., Assistant Professor of History.

JOHN L. COBURN, B. S., FINANCIAL SECRETARY.

BYRON ALDER, B. S.,
Assistant Professor of Poultry Husbandry.

JOHN STEWART, B. S., Assistant Professor of Chemistry.

EDWARD PARLEY PULLEY, B. S., Instructor in Machine Work.

SARA HUNTSMAN, B. S., Instructor in English.

AARON NEWEY, B. S., Instructor in Forging.

CHARLOTTE KYLE, A. M., Instructor in English.

LOUIE E. LINNARTZ, Instructor in Music.

W. L. WALKER, B. S.,*
Instructor in Mathematics.

C. T. HIRST, B. S., *Instructor in Chemistry*.

CANUTE PETERSON, B. S., Instructor in Stenography and Typewriting.

WILLIAM SPICKER, Instructor in Violin.

NETTIE SLOAN, Instructor in Piano.

D. EARL ROBINSON, B. S., *Instructor in History*.

CORAL KERR, B. S., Instructor in Domestic Arts.

WALLACE McFARLANE, B. S.,*

Instructor in Mathematics.

JOHN H. MOSER. *Instructor in Art.*

A. C. CARRINGTON, PRESIDENT'S SECRETARY.

MARY E. JOHNSON, A. B.,
Instructor in Physical Education for Women.

JOSEPH D. HOWELL, registrar.

LeGRANDE HUMPHERYS, B. S.,
Instructor in Mathematics and Farm Machinery.

^{*}On leave of absence.

ALICE A. DUNFORD, B. S., Instructor in Domestic Science.

GERTRUDE M. McCHEYNE, B. S., Instructor in Home Economics, Extension Division.

JOSEPH PRESTON WELCH, B. S., Instructor in Farm Management.

CLAWSON YOUNG CANNON, B. S., Instructor in Animal Husbandry.

ARCHIE D. EGBERT, D. V. M., Foreman in Poultry Husbandry.

WALTER JOHN GLEN, B. S., Instructor in Farm Management.

LON J. HADDOCK, B. S., Instructor in Extension Division.

JOHN IRVIN LAURITZEN, B. S., Instructor in Botany.

AMY LYMAN, B. S., Instructor in Home Economics.

HOWARD JOHN MAUGHAN, B. S., Fellow in Agromony.

WILLIAM WARREN KNUDSON, B. S., Instructor in Horticulture.

HERBERT JOHN PACK, B. S., Instructor in Zoology.

BERT LORIN RICHARDS, B. S., Instructor in Botany.

GEORGE STEWART, B. S., Instructor in Agronomy.

HERMAN WILFORD STUCKI, B. S., Farm Foreman.

ROBERT H. STEWART, B. S., Instructor in Farm Management.

EZRA G. CARTER, B. S., Instructor in Bacteriology.

HATTIE SMITH, Assistant in Library.

S. L. BINGHAM, Assistant in Dairying.

DAN A. SWENSON, Assistant in Woodwork.

GEORGE C. HAWS, A. B., Assistant in Mathematics.

MATHONIHAH THOMAS, LL. B., Special Lecturer in Irrigation Law.

CHARLES BATT,
Superintendent of Grounds, Water Works and Heating and
Lighting Plant.

RASMUS OLUF LARSEN, Superintendent of Buildings.

Experiment Station Staff.

E. D. BALL, Ph. D., Director and Entomologist.

H. J. FREDERICK, D. V. M., Veterinarian.

ROBERT STEWART, Ph. D., Assistant Director and Chemist.

E. G. TITUS, Sc. D., Entomologist.

L. D. BATCHELOR, Ph. D., Horticulturist.

F. S. HARRIS, Ph. D., Agronomist.

F. L. WEST, Ph. D., Meteorologist.

J. E. GREAVES, Ph. D., Bacteriologist.

W. E. CARROLL, M. S., Animal Husbandman.

BYRON ALDER, B. S., Poultryman.

G. R. HILL, JR., Ph. D., Plant Pathologist.

JOHN STEWART, B. S., Associate Chemist.

C. T. HIRST, B. S., Assistant Chemist.

H. J. WEBB, B .S., Assistant Entomologist.

A. D. ELLISON, B. S., Foreman Nephi Farm.

ARCHIE EGBERT, D. V. M., Assistant Poultryman.

H. W. STUCKI, B. S., Assistant Agronomist.

W. W. KNUDSON, B. S.,
Assistant Horticulturist.

H. J. MAUGHAN, B. S., Assistant Agronomist.

E. G. CARTER, B. S., Assistant Bacteriologist.

J. I. LAURITZEN, B. S., Assistant Plant Pathologist.

B. L. RICHARDS, B. S., Assistant Plant Pathologist.

A. B. BALLANTYNE, B. S.,
Superintendent Southern Experiment Farm.

WILLARD GARDNER, B. S., Clerk and Librarian.

IN CHARGE OF CO-OPERATIVE INVESTIGATIONS WITH U. S. DEPARTMENT OF AGRICULTURE.

W. W. McLAUGHLIN, B. S., Irrigation Engineer.

P. V. CARDON, B. S., Agronomist.

R. A. HART, B. S., Drainage Engineer.

The Branch of the Agricultural College of Utah At Cedar City

JOHN ANDREAS WIDSTOE, A. M., Ph. D., PRESIDENT.

ROY F. HOMER, B. S., PRINCIPAL.

JEAN BROWN, A. M., Instructor in English.

MYRTLE DECKER, A. B., Instructor in English.

ROBERT S. GARDNER, B. S., Instructor in Mathematics and Shopwork.

FOREST FLETCHER,
Instructor in Mathematics and Physical Education.

PARLEY DALLEY, B. S., Instructor in Physics and Chemistry.

ALBERT N. TOLLESTRUP, Instructor in Music.

ROBERT S. WRIGLEY, B. S., Instructor in Agronomy and Horticulture.

AMY LEIGH, B. S., Instructor in Domestic Arts.

ALICE KEWLEY, B. S., Instructor in Domestic Science.

RANDALL JONES, B. M. T., Instructor in Woodwork.

RUFUS LEIGH, D. D. S., Instructor in Biologrical Science.

DAVID SHARP, Jr., B. S., Instructor in Animal Husbandry.

GEORGE F. WHITHEAD, D. V. M., Instructor in Veterinary Science.

Extension Division Staff.

John A. Widtsoe, A. M., Ph. D
J. C. Hogenson, M. S. A
James H. Linford, D. Did
Improvement Associations for Women. Home Economics J. P. Welch, B. SCounty Agricultural Demostrator Lon J. Haddock, B. SPublications
R. H. Stewart, B. SCounty Agricultural Demonstrator Walter J. Glenn, B. SCounty Agricultural Demonstrator
David Sharp, Jr., B. S
Elmer D. Ball, M.S., Ph.DEntomology William Peterson, B.S
H. J. Frederick, D. V. M
Robert Stewart, Ph. D
Frank S. Harris, Ph. D
Geroge R. Hill, Ph. D
W. Ernest Carroll, M. S
Irrigation Engineer C. F. Brown, B.S

Standing Committees.

1913-1914.

The President of the College is ex officio a member of each standing committee.

- 1. High School.—Professors Wm. Peterson, P. E. Peterson, Mrs. Cook.
- 2. Graduation.—Professors Arnold, Batchelor, Cooper, Saxer, R. B. West.
- 3. College Publications.—Professors N. A. Pederson, Arnold, Daines, Miss Huntsman, Miss Kyle.
- 4. Attendance and Scholarship.—Professors Thomas, Wm. Peterson, Binford, Miss Kyle, Mr. Humpherys.
- 5. Student Affairs.—Professors Frederick, Binford, Fletcher, Linford, Powell, Miss Smith, Miss Kyle, Miss Kerr.
 - 6. Athletics.-Professors Teetzel, Binford, Coburn, Miss Johnson.
- 7. Publicity.—Professors Hill, Alder, Miss Huntsman, Mr. Canute Peterson, Robinson.
- 8. Exhibits.—Professors Titus, Fletcher, R. B. West, Hansen, Cook, Alder, Mr. Pulley.
- 9. Debating.—Professors Hendricks, Thomas, Titus, N. A. Pederson, Daines.
- 10. Entrance Examinations.—Professors Greaves, Jensen, Miss Dunford.
- 11. Student Employment.—Professors R. B. West, Saxer, Powell, Mr. Humpherys, Mr. Newey, Miss Johnson.
 - 12. Student Body Organization.—Professors Thomas, Titus, Cooper.
- 13. Graduate Employment.—Mr. Carrington, Professors Ball, Thomas, Harris, F. L. West, Porter.



WOMAN'S BUILDING.



MECHANIC ARTS BUILDING.



THE THOMAS SMART GYMNASIUM.

AGRICULTURAL COLLEGE OF UTAH.

Policy.

The Agricultural College of Utah provides, in accordance with the spirit of the law under which it is organized, a liberal, thorough, and practical education. The two extremes in education, empiricism and the purely theoretical, are avoided, the practical being based upon, and united with, the thoroughly scientific. In addition to the practical work of the different courses, students are thoroughly trained in the related subjects of science, mathematics, history, English, and modern languages. While the importance of practical training is emphasized, the diciplinary value of education is kept constantly in view. The object is to inculcate habits of industry and thrift, of accuracy and reliability, and to foster all that makes for right living and good citizenship.

Under this general policy, the special purpose of the Agricultural College of Utah is to be of service in the upbuilding of the State of Utah, and the Great West to which it belongs. The instruction in Agriculture, therefore, deals with the special problems relating to the conquest of the great areas of unoccupied lands, the proper use of the water supply, the kinds of crop or live stock produced, which in Utah may be made pre-eminent; in Mechanic Arts, the most promising trades are pointed out, and they are taught in a manner to meet the needs of the State; in Commerce the present commercial conditions of the State are studied and the principles and methods to be applied in the commercial growth of Utah are given thorough investigation. The women who study Home Economics are taught house-keeping and right living from the point of view of prevailing Utah conditions.

The dominating spirit of the policy of the Agricultural College of Utah is to make the common work of the world—the work that most men and women must do—both profitable and pleasant. The motto of the College is, Labor of Life.

History.

The Agricultural College of Utah was founded March 8th, 1888, when, the Legislative Assembly accepted the terms of the national law passed by Congress on July 2nd, 1862. Under this Act of Congress, and the Enabling Act providing for the admission of Utah to the Union, 200,000 acres of land were granted to the State from the sale of which there should be established a perpetual fund, the interest to be used in maintaining the College.

Under the Hatch Act, approved in 1887, the State receives \$15,000 annually for the Experiment Station. Under the Adams Act of 1906 the State receives an additional \$15,000 annually for research work by the Experiment Station. Under the Morrill Act of 1890, amended by The Nelson act of 1907, the State receives \$50,000 annually for instruction at the Agricultural College.

These federal appropriations, together with the annual income from the land-grant fund, represent the income received from the general government. Most of these funds must be used in accordance with the law for specific purposes and the institution is dependent on State appropriations for funds with which to provide additional instruction and for general maintenance. These needs have been generously met in the past by the Legislative Assemblies of the State. In 1888 the sum of \$25,000 was appropriated for buildings and the County of Cache and the City of Logan gave one hundred acres of land on which to build the College. Since that time the State has, from time to time, appropriated sufficient funds to erect and maintain all the buildings described in a later section, besides providing largely for instruction.

By a recent legislative action, the College receives annually 28.34 per cent of 28 per cent of the total tax revenue of the State after deducting the revenue from 3.5 mills of the total State

valuation, set aside for the support of the elementary and high schools. The State, moreover provides \$10,000 annually for extention purposes, \$15,000 for experimental work, and an increasing fund for farm and home demonstrations.

In September, 1890, the institution was first opened for the admission of students. Degree courses were offered in Agriculture, Domestic Arts, Civil Engineering, Mechanic Arts, and Commerce; a Preparatory Course and short courses in Agriculture and Engineering were also given. Since that time many improvements have been made in the courses; some have been abandoned, several special practical year and winter courses in Commerce, Mechanic Arts, and Home Economics have been added, the standard of the College work has been raised. In 1903, the Board of Trustees established the School of Agriculture, the School of Home Economics, the School of Mechanic Arts, the School of Commerce and the School of General Science, and in 1911 the School of Agricultural Engineering. The High School Department of the College is being gradually eliminated. The first year high school work will not be given in 1913-1914. Both the first and the second years will be discontinued in 1914-1915.

Organization and Government.

GOVERNMENT. The government of the College is vested primarily in the Board of Trustees, and, under their control, the four other administrative bodies,—the Directors' Council, the College Council, the College Faculty, and the Staff of the Experiment Station. These, in their several capacities, determine the policy and maintain the efficiency of the institution.

THE BOARD OF TRUSTEES consists of thirteen members. Twelve are appointed by the Governor with the approval of the State Senate, the thirteenth is the Secretary of State who is *ex officio* a member. This Board assumes the legal responsibility of the institution, cares for its general interests, and directs its course by the enactment of all necessary by-laws and regulations. Vested in it is the power to establish professorships; to employ the instructing force and other officers of the College, and to formulate the general policy of the Institution.

Between sessions, the power of the trustees rests with an executive committee, whose actions are referred to the Board for their approval. In addition, there are committees, largely advisory, that deal with the general interests of the College.

THE DIRECTORS' COUNCIL consists of the President, the heads of the schools, the Director of the Experiment Station, and the Director of Extension Division. This body has immediate supervision of the instruction and discipline in all the varous schools. It constitutes a permanent executive and administrative committee of the College Council and Faculty.

THE COLLEGE COUNCIL consists of the President of the College, the Registrar, and the professors, the associate professors, the assistant professors, and the librarian. All important questions of discipline and policy are decided by this body.

THE COLLEGE FACULTY includes the President, the professors, the associate professors, the assistant professors, the librarian, the

instructors, and the assistants. As an administrative body it is concerned with the ordinary questions of methods and discipline and with various matters pertaining to the general welfare of the College. Through its standing committees it is in intimate contact with the student body and with the life and interests of the college community.

The Standing Committees have delegated to them the immediate direction of all the various phases of college life, such as the enrollment and progress of students in the various schools, and the general direction of the work there carried on. The conduct of the student in his college home and his regularity in performing college duties; the publications of the College and the students; the interests of the students on the athletic field, in the amusement halls, and in their various organizations,—all these things are within the province of appropriate committees consisting largely of members of the council.

THE EXPERIMENT STATION STAFF consists of the President of the College, the Director of the Station, and the chiefs, with their assistants of the departments of the station. This body is employed in the investigation of problems peculiar to agriculture in this portion of the country, the purpose being to improve conditions and results. It is further responsible for the circulation, through private correspondence and regular bulletins, of such information as is of practical value to the farming communities.

THE STUDENTS. The College is maintained at public expense for the public good. The students, therefore, are under a peculiar obligation to perform faithfully all their duties to the State, the Institution, and the community. Most important of these is an active interest in all that concerns the moral and intellectual welfare of the College. Regularity of attendance, faithful attention to studies, and exemplary personal conduct are insisted upon at all times, and the administrative bodies of the College are fully empowered to secure these results.

Admission. Students entering the college courses must show credits for three years work in some reputable high school or must

present eleven units of high school work in accordance with the new State High School Schedule. But beginning with 1914-1915 four years of high school work are required for admission and students must present fourteen units of approved high school subjects for entrance to the Freshman class. These may be selected from any subject for which credit toward graduation is given by an approved high school. But before graduation the following credits must be secured:

English	3 units
History	1 unit .
Mathematics	2 units
Science	3 units
	`
Total	9 units

A unit is equivalent to five hours work per week for one year. Candidates for admission to advanced standing may be required to pass satisfactory examination in all the work of the preceding years, or to present satisfactory evidence of having completed an equivalent of such work in some other school or college.

Admission to High School. The high school department is gradually being eliminated. The first year of high school work will not be given in 1913-1914. Students entering the second year must show credits for one year of high school work.

Admission to the Practical Courses. Persons eighteen years or over, or those under eighteen who have had two years of high school work, are admitted without examination to the practical courses.

Special Students. Persons of mature years, who for satisfactory reasons desire to pursue a special line of study, may be admitted, as special students, provided they give evidence of ability to do the work desired. Special students may be allowed to graduate in any of the courses, on condition that they complete the required work and pass the necessary examinations.

REGISTRATION. All students register at the beginning of the collegiate year for the work of the whole year. Changes in registration, and credit for work not registered, will be allowed only by special permission of the Council.

CLASSIFICATION. All regular students are classified as second, third, and fourth year students in the High School, or as freshman, sophomore, junior, senior and special students in any of the courses leading to a degree.

Graduation. The degree of Bachelor of Science, in Agriculture, Home Economics, Agricultural Engineering, Commerce, Mechanic Arts, or General Science is conferred upon those who complete the regular four-year courses in Agriculture, Home Economics, Agricultural Engineering, Commerce, Mechanic Arts, and General Science respectively. To obtain a degree from 1914 to 1917 a student must have presented eleven units of high school work and accomplished 140 hours of college work. After 1917 students must show fourteen high school units and 120 college hours if they wish a degree in any course. (See Schedule of Courses.)

Besides this the student must have been in attendance at least one school year preceding the conferring of the degree. He must have completed all the prescribed and elective work in the four-year college schedules. He may be required to pass a satisfactory oral examination on the technical work of his course before a special committee appointed by the president. He must have no grade lower than D in any subject. Four-fifths of all his term grades must be C or better. He must have discharged all College fees. He must be recommended for graduation by his school faculty and receive the favorable vote of two-thirds of the members of the College Council.

SCHOLARSHIP HONORS. In order to encourage high scholarship the College Council has instituted a College Roll containing the names of all students doing excellent work. This roll is divided into two groups, the first group containing the names of

those who have A or B in all their work, the second composed of students having A or B with one C.

For the year 1912-1913 the following students were selected from the College Roll as deserving of some special distinction for high achievements in scholarship. On the last day of school they were, accordingly, publicly honored by receiving either a "Scholarship A" or "Honorable Mention" for Scholarship.

The following received the "Scholarship A:"

Abel S. Rich.
Elizabeth Groebli.
C. Y. Cannon
Grandison Gardner.
J. D. Barker.
H. R. Hagan.
Kathleen Bagley.

The following received "Honorable Mention:"

Ruby Osmond. Effie Warnick. Mary Shaw. David Sharp. Stanley Ivins. P. N. Shelley.

THE STUDENT BODY ORGANIZATION. This society embraces all the students of the institution. Its prime object is to foster a proper spirit of college loyalty. It also secures dispatch and efficiency, as well as uniformity, in the administration of all matters pertaining to the entire student body. Realizing the importance to all students of taking part in the various college activities, the organization further provides each member with the maximum amount of proper athletic, theatrical and social recreation at the minimum expense, viz., \$5.00 annually. This society has control of the following student activities:

- 1. Athletics, including all inter-class and inter-collegiate contests in foot ball, base ball, basket ball, and track events.
- 2. Musicals, including all public performances of the Band, the Orchestra, Glee Club, Choir, String Quartette, and Mandolin

and Guitar Club. During recent years the following operas have been presented: Babette, Marriage by Lantern Light, The Geisha, When Johnny Comes Marching Home, The Mikado.

- 3. Theatricals. Once or twice each season some dramatic performance is given. In the past, two of Shakspere's comedies, She Stoops to Conquer, Pygmalion and Galatea, The Climbers, The College Widow, The Amazons, Sweet Kitty Bellairs, The Rivals, and several minor productions, have been presented.
- 4. *Debating*. Each year two or more intercollegiate debates occur. In addition there are several debating societies organized by the different classes.
- 5. Student Publications. The students of the College publish a school paper, Student Life, which makes its appearance once a week and contains timely editorials, news items, announcements, reports and forecasts of College activities.
- 6. Lyceum Course. Each year the Student Body presents from four to six lectures or musical organizations, of national or local repute. These entertainments are free to members.

The junior class publishes the College Year Book, christened *The Buzzer*.

CLUBS. Not affiliated with the Student Body Organization, and standing largely for the interets of the various schools, are the following clubs:

The Agricultural Club, which aims to keep its members in touch with current events in scientific agriculture. Special lectures, often illustrated, are given at intervals throughout the season.

Home Economics Club. The Home Economics Club is composed of the students in Domestic Science and Arts. Other students and instructors are eligible to associate membership. The object of the club is to keep students in touch with movements connected with their work and to promote interest in home economics work. Lectures and exhibits are given in connection with the club.

The Commercial Club, working to promote the interests of

the Commercial School, to popularize the commercial courses and to consider matters of interest not encountered in routine work. The club maintains an annual lecture course, given by prominent men throughout the state on topics of special interest to the business man. All commercial students of college grade are eligible to membership.

The Delta Theta Sigma, a chapter of the national honorary fraternity for students in Agriculture. Members are chosen for scholarships, being selected from among the upper two-fifths of the junior and the senior classes in Agriculture.

The Mechanic Arts Association is designed to promote the social and intellectual interests of the students in that school. All the teachers and all the regularly enrolled students of that school are eligible to membership. Monthly meetings are held throughout the year at some of which lectures are given by specialists.

The Agora, a fraternal organization open to men who have won places on the intercollegiate debating teams. Its purpose is to foster debating in the College and to keep alive among the old debaters an interest in debating contests.

A number of fraternities, sororities and other social organizations are also in successful operation.

STUDENT EXPENSES. Tuition is free. Utah students pay an annual entrance fee of \$5. Students registering from other States must pay \$25. The privileges of the library and museums are free. In most of the laboratory and shop courses students are charged an incidental fee of \$1 per credit hour. The total amount varies in each case in accordance with the course taken, ranging from \$2.00 to \$13.00 a year.

Every regular student must pay a Student Body fee of \$5.00 for which a ticket is issued admitting him to all the activities controlled by the Student Body Organization,—athletic events, foot ball, basket ball, base ball, and track, dramatic and musical entertainments, socials, lectures, etc. This system has been found to be a great saving to the students and a most excellent means of fostering proper interest in student activities.

All the boys during three years of their course are required to take Military Drill and must purchase a military uniform. To this rule there is no exception unless a very unusual reason exists. This uniform is obtained through the Secretary of the College at actual cost, about \$15.00, and has been found more serviceable and far more attractive in appearance than civilian clothes of the same price. With proper care one uniform will last two years.

All students in Domestic Science must provide themselves with two white aprons, two pairs of white half-sleeves, and two holders, six inches square.

All girls taking physical culture must provide themselves with a gymnasium suit and gymnasium shoes. These may be procured at the College. Cost, about \$4.00.

The fee charged for a certificate of graduation is \$2.50; and for a diploma, \$5.00. Students are held responsible for any injury done by them to the College property.

Good board and rooms can be obtained in private houses for \$3.50 to \$4.50 per week. By renting rooms and boarding themselves, students are able to reduce considerably the cost of room and board. The College maintains a cafeteria where, for a few cents, students may get a hot luncheon daily.

The cost of necessary books and stationery ranges from \$10.00 to \$15.00 a year.

Winter Course. In order to be of the greatest service to the greatest number of people the College offers, and has offered annually since its opening year, a series of winter courses. Hundreds of persons, young and old, men and women, unable to atend school at any other time, have in the past taken advantage of this opportunity, and the number increases each winter. These courses furnish instruction in Agriculture, Home Economics, Mechanic Arts, and Commerce. In addition, the student is permitted to take any course or courses in any of the other departments for which he may be prepared. All the work is elective. For further information see the work outlined in the Schedule of Courses.

SUMMER SCHOOL. The College maintains, as an integral part of its work, a summer session, beginning early in June, and continuing for six weeks. Every department of the College is represented, the courses of instruction being arranged to meet the peculiar needs of summer students. For the benefit of teachers, special courses are provided in addition to the regular work of the College. Students desiring to make up conditions or prepare for advanced work are given all assistance possible. The entire equipment of the institution is available for the summer session, and every care is taken to preserve the standard and the spirit of the college. No admission requirements are prescribed, but students in all departments are directed by instructors to those courses in which they may pursue work to the best advantage. Arrangements have been made with the State Board of Education to accept Summer School credits in individual subjects in lieu of examination. An entrance fee of \$5.00 is charged for each course for which the student registers. Board and rooms can be secured throughout the city at the usual prices. The Special Summer School Circular will be sent on request.

NORMAL TRAINING. For the purpose of providing specially trained teachers of domestic science and arts, agriculture, and mechanic arts, arrangements have been made whereby the graduates of the State Normal School of the University may enter the degree courses of the Agricultural College and there obtain technical work in Home Economics, Agriculture, and Mechanic Arts. All the work done in the State Normal School will be credited the candidates for the professional degree.

Graduates from the degree courses in Home Economics, Agriculture, and Mechanic Arts of the Agricultural College will be given the normal certificate upon the completion of one year of professional work at the State Normal School.

RECITATION SCHEDULE. The recitation periods, commonly known as hours, are fifty minutes in duration and begin at 8:30 a.m. After the third hour there is a daily intermission of 20 minutes for general devotional exercises. From 12 m. to 2 p. m.

the Cafeteria, or College Restaurant, will be open. The fourth period (from 11:20 to 12:10) is given to Military Drill. following table shows the entire schedule:

1 hour, 8:30— 9:20.

2 hour, 9:20—10:10.

3 hour, 10:10—11:00.

Chapel, 11:00—11:20.

4 hour, 11:20—12:10.

5 hour, 12:10— 1:00.

6 hour, 1:00— 1:50.

7 hour, 1:50— 2:40. 8 hour, 2:40— 3:30.

9 hour, 3:30— 4:20.

Buildings and Equipment.

The Agricultural College of Utah is in Logan, the county seat of Cache Conuty, one of the most prosperous agricultural counties in the State. The city has a population of about 7,000; it is noted for its freedom from vice, is quiet, orderly, clean and generally attractive, with neat homes, good, substantial public buildings, electric lights, a sewer system, and a water system. Cement pavements and an excellent street-car line, extend from the Station to the College. The citizens are thrifty and progressive. The College is beautifully situated on a broad hill overlooking the city, one mile east of Main street, and commands a view of the entire valley and of its surrounding mountain ranges. The beauty of the location is perhaps unsurpassed by that of any other college in the country. A few hundred yards to the south is the Logan River. A mile to the east is a magnificent mountain range and a picturesque canyon. In other directions are towns and farms covering the green surface of Cache Valley, and distinctly visible through the clear atmosphere. The valley is a fertile, slightly uneven plain, 4,500 feet above sea level, about twelve by sixty miles in dimensions, almost entirely under cultivation and completely surrounded by the Wasatch Mountains. It is one of the most attractive and healthful valleys in the western region.

The College now has nearly twenty buildings, all modern, all well lighted and well heated by a central heating plant and all carefully planned and constructed to meet the purpose for which each was intended.

The Main Building, of brick and stone, is 360 feet long, 200 feet deep in the central part, and four stories high. It contains the large auditorium, seating about 1,500; the administrative offices; the library; and all the various class rooms and laboratories except those of Mechanic Arts and Home Economics.

THE WOMAN'S BUILDING, is a large four-story brick building fifty by eighty feet, situated at three minutes' distance from the Main Building on the north-west corner of the campus. Cement walks connect it with the other school buildings and with Main Street. It is one of the largest and best equipped structures devoted entirely to Domestic Science and Arts in the whole Inter-Mountain Region. It has automatic elevator service from the locker room and laundry in the basement to the spacious rooms on the fourth floor. On the first floor there are a large lecture room used for a class room and also for public lectures, a small class room and a kitchen-laboratory equipped with gas for individual work, a library, and an office. On the second floor are the second kitchen-laboratory, equipped with electricity for individual work, a small kitchen, a dining room, a chemical and a research laboratory. The third floor is devoted entirely to the Domestic Arts and contains the office, millinery room, sewing, dressmaking and fitting rooms with complete equipment. The fourth floor contains a rest room, class room, and a large room used for museum material.

The Department of Physical Education has its home in the Thomas Smart Gymnasium, completed at an expense of over \$65,000.00 and today the finest and most complete college gymnasium in the Rocky Mountain region. It contains a main exercise hall, 114 by 70 feet, which is well lighted and ventilated. The steel work overhead gives attachment for the hanging apparatus and the equipment is so arranged as to be quickly put in place, or hoisted out of the way leaving a clear floor space for large classes or games. Ten feet above the main floor is a running track, and on the same level, a handball court and a wrestling and boxing room.

The Women's Gymnasium occupies the south end of the building and has a floor space of 70 by 40 feet. On the north end of the building is a swimming pool, 60 by 24 feet supplied with filtered water, affording superb opportunity for swimming and aquatic sports. In the center of the building are two large dress-

ing rooms equipped with steel lockers, shower and tub baths, a steam room and all the conveniences found in modern gymansiums.

The athletic field and tennis courts are situated close to the gymnasium and afford opportunities for all forms of athletic sports.

THE EXPERIMENT STATION BUILDING, a two-story brick structure 45 feet long and 35 feet wide, contains the offices of the station staff, a reading room, and a dark room for photographic work.

THE MECHANIC ARTS BUILDING is a two-story brick structure. It has a ground floor area of 20,000 square feet, divided into five groups of rooms, viz.: wood working department, machine shop, forging rooms, drafting rooms and agricultural engineering. On the second floor are the Mechanic Arts Museum, blue-printing room, room for painting and staining, and class rooms.

This building is also the home of the department of Agricultural Engineering and contains a laboratory specially adapted to this class of work. Its equipment consists of several gasoline engines of from two to fifteen horse-power and a horizontal steam engine of six horse-power. The testing laboratory contains a Riehle Bros. hundred thousand pounds testing machine and also a cement testing machine of the same make. The laboratory further contains transits, levels, tapes, leveling rods, range poles, and other apparatus used by students in the work in surveying, irrigation, drainage, and road construction. The drawing rooms and shops of the Mechanic Arts Department with their complete equipment are available for students in Agricultural Engineering.

The machine shop is equipped with the following: a .15 H. P. motor, a 24 in. planer, two crank shapers, two speed lathes, six 14 in. engine lathes, a 36 in. radial drill, two universal milling machines, a universal tool and cutter grinder, emery wheels, power hack-saw, twenty machinist's vises with work bench, tool cabinet,

tool room and case containing a supply of small tools for general use.

The drafting room contains thirty-five drawing tables, boards, model coordinate planes, filing case and blue-printing facilities.

The Forge Shop contains thirty-two down-draft forges, each equipped with a full set of tools, a drill press, a power hammer, and an emery wheel; all driven by electric power.

The Carriage Shop contains four benches each equipped with the necessary tools for carriage work.

A farm machinery building is to be erected in the near future in the vicinity of the Mechanic arts building.

A THREE-STORY LABORATORY BUILDING will be constructed next year and when finished will be occupied by the departments of chemistry, physics, and bacteriology.

At present The Bacteriological Laboratory is well equipped with modern apparatus for the work offered. Each student is provided with a high-power Leitz or Bausch and Lomb microscrope. Microscopes with triple nose-piece, fitted with 1-12 and 1-16 oil-immersion objectives, Abbe condenser, and rotary and mechanical stage, are used for identification work. The equipment includes an autoclav, hot-air and steam sterilizers, incubator, refrigerators, ærobic plate, apparatus, anærobic tube apparatus, microtome, analytic balance, cages, permanent mounts, precision glassware, chemicals, stains, and culture media. To encourage more careful work, the students are provided with individual lockers.

THE CHEMICAL LABORATORIES are also well equipped for elementary and advanced work in chemistry. Several valuable collections of gums, oils, coloring matters, foods, etc., are important aids to the students in this department. The laboratories are fitted with water, gas, hoods, and all other conveniences.

THE PHYSICIAL LABORATORY EQUIPMENT is very complete, consisting of all the necessary pieces of aparatus for class demonstration; a set of apparatus for elementary laboratory work, suf-

ficient for fifteen students working on the same experiment; and all pieces required for advanced work in mechanics, heat, electricity and magnetism, and light, including high grade electricial measuring instruments of all kinds, standard and variable resistances, induction coils, dynamos, motors and rectifiers, heliostat, interferometer, spectrometers, polariscope, thermostat, finest of calorimeters, Beckman thermometers, thermocouples, cathetometer, Atwood machine, sensitive chemical balances, thermograph, barograph, anemometer, etc. Gas, water, compressed air, continuous and alternating current electrical power are available.

THE PHYSIOLOGICAL LABORATORY, located on the first floor, in the south wing of the Main Building, is supplied with skeletons both articulated and disarticulated, many enlarged models of organs, a papier mache manikin, and complete slides of all the tissues. Students have access to a set of vertebrate skeletons and to an excellent collection of native animals. The necessary reagents for physiological experimentation are at hand.

The Zoological and Entomological Laboratory is equipped with water and gas and has for use in laboratory work improved instruments, embryological models, skeletons from the vertebrate groups, collections of mounted birds, mammals, reptiles and fishes. Also alcoholic material in many groups. The Department has economic and systematic collections of insects, these with the private collections and libraries of the professors are available to the students taking work in the department.

THE BOTANICAL AND PLANT PATHOLOGICAL LABORATORY contains a large herbarium of flowering plants, ferns, horsetails, fungi, and algae for use in systematic botany and in plant diseases. The laboratory is splendidly equipped to do general work in all courses offered, as well as in research work. The apparatus consists of microtomes, both rotary and free hand, compound microscopes, dissecting microscopes, autoclave, Arnold sterilizer, a hot-air oven, an electrically equipped paraffin bath, balances, clinostat, culture room, together with all necessary glassware,

reagents and stains to carry on successful botanical work. The department maintains a good working library in connection with the laboratory.

THE DEPARTMENT OF ANIMAL HUSBANDRY is equipped with good representatives of the various breeds of cattle, horses, sheep and hogs most common in the western section, and with barns for keeping the same. The latest methods of livestock management are practiced. The Stock Judging Pavilion has recently been built. Here the classes in stock judging are held, making it possible to do judging work in all kinds of weather.

In addition to this, a college creamery is maintained, where butter and cheese of the best quality are made, according to the latest methods.

The Poultry Building covers 230 feet by 25 feet, with yards 100 feet wide on each side. The building is divided into two sections:—first, the brooder section, with a capacity for about one thousand chicks; second, the experimental section, with a capacity for over five hundred hens. This section is divided into thirty-two pens; it is shut off from the public and used for conducting experiments on the different questions of poultry culture. The building is heated by a hot water system. In the front part are an office, a feed and weigh room, a store room, and a sleeping apartment.

A modern Incubator Cellar has recently been provided which is well equipped with the latest incubators of different makes, egg distributing aand turning tables, pedigree hatching trays, hygrometers, thermometers, acetylene and electric egg testers.

THE HORTICULTURAL DEPARTMENT is equipped with two greenhouses where laboratory instruction may be given in the propagation of horticultural plants, the practice of floriculture and vegetable gardening. The many apple orchards in the close vicinity give exceptional opportunity to study orchard problems and conduct laboratory exercises along the lines of pruning, grafting, picking and packing apples, etc.

THE VETERINARY HOSPITAL, a two-story stone and frame structure, 18 by 42 feet, containing a well-equipped dispensary, operating room, and stalls for patients, gives ample room for all the work in veterinary medicine at present offered by the College.

AGRONOMY. The Department of Agronomy is provided with a large collection of agricultural plants, seeds and soils, representing the main crops and types of soil of the inter-mountain region. The College farms are equipped with the best and latest farming implements and machinery for carrying on work scientifically and successfully. They are divided, for illustrative and experimental purposes, into numerous plats on which many varieties of farm crops are grown and upon which important experiments are carried on.

The Soil Physics Laboratory has a good supply of apparatus for accurate and up-to-date work, including balances, microscopes, drying ovens, hot-water baths, compacting machines, and apparatus for determining the mechanical analysis of soils.

The Farm Crops Laboratory has recently been equipped with gas and has a large supply of farm crops on hand for illustrative and laboratory work. It is supplied with magnifying glasses, a Grey seed weigher, a vertical air-blast seed separator, a seed germinator and tester, as well as enlarged and dissectible models of various grains, grasses and root crops.

THE COMMERCIAL DEPARTMENT occupies the entire third floor of the front of the Main Building, covering a floor area of 7,225 square feet. Each room is specially designed and furnished for the work to be conducted in it. Practice is given in the methods of modern banking, wholesale, retail, and commission trade, and freight, insurance and real estate offices. The room for typewriting contains a full complement of standard machines. The rooms for stenography and penmanship are conveniently furnished for efficient work.

THE COLLEGE MUSEUMS contain a large number of specimens illustrative of geology, mineralogy, paleontology, and vertebrate and invertebrate zoology, including a large series of the insects of

the intermountain region; also an extensive series of plants of the western highlands. An extensive collection of grains represents the produce of Utah and other states. Contributions of fossils, ores, animals, plants, relics, or other material of value to the museums, will be highly appreciated. All gifts are labeled and preserved, and the name of the donor is kept on record.

The Art Rooms, composed of six studios, are supplied with plain and adjustable tables for the elementary work in drawing and design, also with easels and model stand for the studio. Individual lockers for students and cases for the materials of the department are supplied. Casts from the old masters in sculpture, reproductions of great paintings, examples of Japanese art, still-life models, drawing boards, and draperies are included in the equipment, as well as a valuable collection of ceramics, textiles and books on design, household art, sculpture, painting, and architecture.

The Library, with the offices and reading room, occupies the entire front of the second floor of the Main Building. The large, well-lighted main room is one of the most cheerful and inspiring reading rooms in the country, with an unsurpassed view over the entire valleye. Growing plants, pieces of sculpture, and a number of oil paintings further enhance the attractiveness of the environment. The books are shelved on the Library Bureau standard steel stacks, arranged in alcoves, where tables also are provided for advanced students wishing to do special study.

The library now contains about 23,000 bound volumes and a large number of pamphlets. The books are classified by the Dewey decimal system, and there is a complete dictionary card catalogue of the library. The shelf list is also on cards, and forms a classed catalogue for official use.

The library is a depository for United States public documents, and receives practically all material printed by the government. The files of the U. S. Agricultural Department and the State Experiment Stations publications are nearly complete, the bulletins are bound, and both made easy of access by the

printed card catalogues. There are one hundred and twenty-five periodicals on the subscription list, besides about eighty which are received as exchanges for the publications of the College and of the Experiment Station. Thirty-five newspapers of the State are regularly received and placed on file in the reading room.

The land occupied by the College and its several departments embraces about 116 acres. Of this, thirty-five acres constitute the Campus, laid out with flower-beds, broad stretches of lawn, and wide drives and walks leading to the College buildings. During the summer the conservatory contributes specimen plants for lawn decoration.

Immediately east of the Main Building are the parade grounds and athletic field, of about ten acres. The farms comprise 71 acres; the orchards and the small fruit and vegetable gardens, 10 acres. All parts of the College grounds are used by the professors in charge of instruction in agriculture and horticulture and by the Experiment Station staff for the purpose of practical illustration in their respective departments, and for experimentation.

The Agricultural Experiment Station.

The Agricultural Experiment Station is a department of the College, supported by Congressional appropriations, supplemented by the receipts from the sales of farm products, and by such appropriations as the State Legislature makes from time to time to carry out special lines of work, or for the establishment and support of sub-stations. The station was created for the special purpose of discovering new truths that may be applied in agriculture, and of making new applications of well-established laws. It is, therefore, essentially a department devoted to research; and as such, it does the most advanced work of the College.

THE EXPERIMENT STATION is not, in the ordinary sense, an institution where model farming is carried on. It has a much higher purpose. The practices of the farmer are subjected to scientific tests, in order to determine why one is bad and the other good. Acting on the suggestions thus obtained, new lines of investigation are begun, in the hope that truths of great value to the farmer may be discovered.

THE STATION confines its efforts as far as possible to the particular problems encountered by the farmers of the intermountain regions. Irrigation is the foundation of western agriculture and therefore irrigation has received the greatest amount of attention at the hands of this station. Thousands of dollars have been spent in the equipment of experimental plots where the value of different amounts and different methods of application of water have been studied and the underlying principles brought out. Arid farming is the western method of extending agriculture beyond the confines of the irrigation canal, and its problems are only second in importance to those of irrigation in the development of the West. A number of experimental farms are maintained in which every effort has been made to increase the possibilities of production of this arid land. At the present time, many of the problems under investigation involve the waterholding capacity of soils, the water requirements of crops, the movement of plant foods and questions which are fundamental to all systems of agriculture.

Other problems vitally affecting the agricultural West are under investigation. Breeding experiments for the improvement of sugar beets, dry land grains, alfalfa and poultry are in progress. Studies of insect pests and plant diseases affecting western crops and orchards have received consideration. The problem of producing fruit free from worms has been practically solved. The control of the alfalfa weevil is the present problem. The development of better cropping methods, care and feeding of livestock, the development of the dairy industry, and the general betterment of western agricultural conditions are among the problems the station is attemping to solve.

State appropriations are granted under provision that the Southern Experiment Farm and the arid experiment farms shall be maintained and that work in irrigation, drainage, the study of the alfalfa weevil, shall be continued. Publications of the station are also provided for. These are issued in the form of bulletins containing the results of experimental work, of circulars containing timely and practical information on various subjects, and an annual report giving account of the station's activities during the year, together with an itemized statement of its expenditures. The bulletins and circulars are published at irregular intervals.

The Experiment Station has a high educational value. Nearly all the members of the Station Staff are also members of the College Faculty, and the students, therefore, receive at first hand an account of the methods and results of the work of the Station, and training in their application. The opportunities that the Experiment Station offers for advanced work in several branches of science are of great importance. The scientific method and spirit characterize all the operations of the Station, and none can fail to be benefited by a study of the experiments that go on at all times of the year.

The Station Staff are always glad to assist the advanced students of the institution in any investigation they may wish to undertake.

Extension and Demonstration Work.

The Extension Division of the Utah Agricultural College was established for the purpose of disseminating all the work of the college among the people of the state.

DEPARTMENTS.

This work has of late years become so broad in scope that it has been found advisable to segregate its activities into separate departments, as follows:

Farmers' Institutes and Schools.

Juvenile Clubs and School Co-operation.

Improvement Associations for Women.

Farm Demonstration.

Publications.

Correspondence Studies.

Trains, Fairs and Exhibits.

The extension work is done by the members of the Extension Staff; lectures from among the farmers of the State, and in addition service not exceeding two weeks in duration in any year, may be expected from any member of the College faculty, providing that no more than six days consecutively are devoted to Extension work. Arrangements are also made for co-operative work with the United States Department of Agriculture.

FARMERS' INSTITUTES AND SCHOOLS.

During the year 1912-1913 Farmers' and Housekeepers' Institutes and Schools (of from one to twelve days' duration) were held in every county of the State. In addition a Farmers' Demonstration Train was operated from Feburary 18th to March 13th in co-operation with the San Pedro, Los Angeles and Salt Lake Railroad, this train emphasizing particularly the live stock industry. The members of the staff served as judges at county

and state fairs, as teachers' institute leturers, and in various other ways.

JUVENILE CLUBS AND SCHOOL CO-OPERATION.

In this Department affiliation is made with all organizations of boys and girls for the creation of interest in agricultural and home economics problems. Contests of various kinds are conducted under the supervision of this Department. During the year, clubs were organized in seventeen counties.

IMPROVEMENT ASSOCIATIONS FOR WOMEN.

This Department operates through existing women's organizations of the State of a religious, literary, or civic nature. The Extension Division supplies such organizations with study outlines, lecture material, reference books, and, by lectures and otherwise, guides the activity of the organizations to greater usefulness. Twenty home economics associations have been formed, sixteen of which are using study outlines furnished by the Department.

FARM DEMONSTRATION.

Through co-operative agreement with the Office of Farm Management of the United States Department of Agriculture, a State Leader in Farm Management has been appointed who is at the same time head of the Department of Farm Demonstration of the Extension Division. The last State Legislature appropriated \$6,000 for 1913 for farm and home economics demonstrators in the counties. This amount, according to the bill, increases at the rate of \$2500.00 per year until the total of \$25,000 per year is reached. Through this fund and by co-operative arrangement with various agencies in the State it is proposed to place ultimately a farm and home demonstrator in each county of the State. These demonstrators are to assist the people directly by

bringing to them the latest results pertaining to good agriculture and house keeping.

Through co-operation with the Dairy Division of the United States Department of Agriculture state-wide work has been undertaken in the interest of better dairying. The Staff organizes cow testing associations; encourages private records of herds; advises in the matter of dairy buildings and silos, and assists in the purchase of stock.

SCHEDULE FOR 1913-1914.

The following institutes and schools will be held in 1913-1914:

Nov. 4	Minersville, Beaver County; General
	Beaver, Beaver County; General
	Kanosh, Millard County; General
	Meadow, Millard County; General
Nov. 10 and 11	Fillmore, Millard County; General
	Holden, Millard County; General
Nov. 13	Oak City, Millard County; General
Nov. 14 and 15	Oasis, Millard County; General
Nov. 17 and 18	Tooele, Tooele County; General
Nov. 19 and 20	Grantsville, Tooele County; General
Nov. 21 and 22	. Taylorsville, Salt Lake County; General
Nov. 24	Draper, Salt Lake County; General
Nov. 25 and 26	Lehi, Utah County; General
Nov. 28 and 29	Spanish Fork, Utah County; General
	American Fork, Utah County; General
	Payson, Utah County; General
Dec. 8-12 (incl.)	Nephi, Juab County; General
· · ·	. Bountiful, Davis County; Garden Crops
	Farmington, Davis County; Garden Crops
	. Kaysville, Davis County; Garden Crops
Dec. 20	.Clearfield, Davis County; Garden Crops

Jan. 5-9 (incl.)
ventions of State Associations (first four
days of first week). Dairy Convention of
State Association (first two days of second week).
Feb. 11 to 21 (incl.)
Feb. 23-27 (incl.)Mt. Pleasant, San Pete County; General
Feb. 23-27 (incl.)
March 2-14 (incl.)Cedar City, Iron County; General
March 16-20 (incl.)Brigham, Box Elder County; General
March 16-20 (incl.) Tremonton, Box Elder County; General
March 23-27 (incl.)
March 30-31 (incl.) Huntington, Emery County; General
April 1-2 (incl.)Orangeville, Emery County; General
April 3-4 (incl.)Ferron, Emery County; General
April 6-7 (incl.)Price, Carbon County; General
April 8-9 (incl.)Wellington, Carbon County; General

This program omits early fall (1913) institutes held in Wasatch and Uintah Counties and early spring (1914) institutes held in Wayne, Garfield, San Juan, Kane, Washington, Iron and Piute Counties, and the summer (1913) institutes held in Rich County.

CORRESPONDENCE DEPARTMENT.

At the commencement of the year 1911-12 the Agricultural College established a Correspondence Department as a branch of the Extension Division. For several years the College has had a few students doing work in agricultural and kindred subjects by correspondence but now the institution has regularly recognized

this sort of work as one of the functions of the Extension Division and has created a special department to handle it.

The College is no longer regarded as an Institution maintained solely for those who receive instruction in its class-rooms and laboratories. It is for all the people everywhere. Many people of all ages are unable to leave their work to receive the advantages of a college education; it is for such that this department has been created.

The registration in the Correspondence Department includes men and women from all over the State of Utah and the neighboring states, and the old as well as the young. The average age is over thirty years. Work has been taken in practically every course offered by the Institution.

The Correspondence Department further conducts a "Colonists' Course" and a "Housekeepers' Course." The former is a special course for those who have come into Utah recently or those who, having lived here for years, wish to undertake agriculture as a pursuit. This course gives in a brief but practical fashion the fundamental principles of agriculture in the semi-arid West. Such topics as Land Values and Agricultural Production, Homestead Laws and Reclamation Acts, Utah Soils, Principles of Irrigation Farming, Irrigation Law, Farm Crops, Dry Farming, Horticulture, the Extermination of Insect Pests, Plant Diseases, System of Live Stock Farming, Horse Breeding, Poultry Industry, Marketing of Agricultural Products, and Educational Facilities are fully treated. The entire aim of the course is to furnish such information as will meet the individual needs of those enrolled and thereby enable them to become more successful farmers and stock raisers. The Colonists' Course may be completed in from three to five months. The Housekeepers' Course embodies the same general idea, namely, of conveying in a compact fashion and in a brief space of time, the rudiments of Domestic Arts and Domestic Science in their most practical application to the everyday life of the home.

Schools and Courses of Study.

For the purpose of more efficient administration, the College is divided into six schools: (1) The School of Agriculture; (2) The School of Home Economics; (3) The School of Agricultural Engineering; (4) The School of Commerce; (5) The School of Mechanic Arts; (6) The School of General Science. In addition the last two years of a High School Department are maintained. These schools are educationally interdependent, and together form a unit.

The School of Agriculture offers a four-year college course with opportunity to major in Agronomy, Horticulture, Animal Husbandry and Dairying, Agricultural Chemistry, Bacteriology, Plant Pathology, Veterinary Science, or Economic Entomology.

The School of Home Economics offers a four-year college course with opportunity to major in Food and Dietetics, Home Sanitation and Construction, Domestic Arts and Art.

The School of Agricultural Engineering offers a four-year college course with the opportunity to major in Irrigation and Drainage, Farm Mechanics, Agricultural Surveying, Roads, Rural Architecture, Rural Sanitation and Agricultural Technology.

The School of Commerce offers a four-year college course with the opportunity to major in Accounting, Economics and Political Science.

The School of Mechanic Arts offers a college course in Mechanic Arts, with the opportunity to major in Woodwork, Iron Work, and Machine Work.

The School of General Science offers a four-year college course in General Science.

Each school also offers *Practical Year and Winter Courses* which may be taken by mature students fitted to follow them.

THE SCHOOL OF AGRICULTURE.

Agriculture is one of the most promising of modern professions. It is growing very rapidly, and owing to the scientific foundation that recent years have given it, large numbers of intelligent people are adopting it as their means of livelihood. The new agriculture is not a profession of unceasing toil. On the contrary, the freedom, health, intellectual activity, and profit to be obtained from intelligent farming are attracting the best classes of people. Utah and other western states are offering splendid opportunities to those who prepare themselves for scientific farming. There is a great demand for men who can supervise large farm enterprises; there is a greater demand for men who can act as experts, experimenters or teachers in the schools and other institutions in the State and National Government. The supply of such men does not begin to equal the demand.

The instruction in agriculture is provided by the departments of Agronomy, Animal Husbandry, Horticulture, Entomology, Chemistry, Poultry Husbandry, Bacteriology, Plant Pathology, and Veterinary Science. The courses of these departments are so arranged as to enable the student to lay a foundation upon which he can build a successful career as a farmer, or develop into a specialist in some one line of agriculture.

Experience has shown that practically all of the students who take agriculture come from the farms, and it is asseumed that they are acquainted with the various manual operations of farm work. The design of the courses, is, therefore, to teach the sciences that underlie practical agriculture, and sufficient supplementary studies to develop the agricultural student to the intellectual level of the educated in the other professions.

The general and departmental libraries enable the student to become acquainted with a wide range of agricultural and related literature: the laboratories of the College, and the Experiment Station afford opportunity for training and experience that it would be impossible to get from books alone.

THE SCHOOL OF HOME ECONOMICS.

The courses in Home Economics aim to train and broaden the minds of women, and to enable them to meet more intelligently the home demands of modern life. When woman has learned to apply the principles of science, economics and art to the problems of daily living she will realize that housekeeping is an occupation worthy of the best thought which results in the betterment of home life and more efficient living. Formerly the higher education of woman led her away from the practical interests of the home. The recent establishment of Domestic Science courses in many leading colleges and universities shows a public demand for education toward home life rather than away from it. The State of Utah wisely established such courses when this College was first organized; and the favor with which the work has been received by the public shows the wisdom of the plan. The Home Economics Courses have been strengthened and improved each year, and better facilities for instruction and study have been provided. Four departments devote themselves exclusively to the special work of the School of Home Economics; namely, Foods and Dietetics, Domestic Art, House Construction and Sanitation, and Applied Art. The four-year courses give the same training in mathematics, in English, and in science as other baccalaureate courses, together with a broader culture in literature and modern languages than is offered in any other. Both in the preliminary work and in the advanced years, special studies in the various lines of home science are prescribed in logical order as the distinctive feature of the course. The Practical Courses in Home Economics are offered for the benefit of young women who do not wish to take the studies of the regular college years, but desire to devote more time to the subjects of special interest to women.

THE SCHOOL OF AGRICULTURAL ENGINEERING.

The rural problem has many phases. An adequate and selfperpetuating country life cannot be introduced simply by teaching people how to raise grain and fruit, and how to manage and improve livestock. The country could be filled with farmers well trained in these branches and still there might be a great lack in many of the elements necessary for a well-balanced and efficient rural community. There are many problems having to do with the entire community rather than with the individual farmer, and these problems must be solved by men with training for that kind of work rather than by those trained to produce crops and livestock on a single farm. Again, there are questions on the individual farm which have to do with construction rather than with production from the soil. These questions, if they are to be answered properly, must be answered by men with special training.

In the past, agricultural colleges have given their attention to the direct questions of farming, but the time has come when the entire rural problem must be met. The farm, aside from producing good crops, must be a desirable and healthful place to live. The buildings must be so arranged and constructed as to give the maximum of efficiency and comfort and at the same time have proper sanitary provision. The rural roads must be such that the farmer can move his crops with small expense, and can himself go to town with comfort and speed. The machinery of the farm must be so constructed and cared for that it will be reliable and do its work economically. The limited supply of irrigation water must be so used that it will produce the maximum returns. There must be manufacturies for working over the raw materials of the farm into high-priced finished products. All these necessities demand that there shall be men trained for the work.

These various activities may be classed under the general heading of Agricultural Engineering. To meet the demand for this work, the Utah Agricultural College has organized a School of Agricultural Engineering with seven departments. The work is designed not only to fit men as specialists in any single department, but also to give them such general training in agricultural engineering, that they may be able to solve all but the most tech-

nical engineering problems of an entire rural community. The courses will also be very helpful to the man who is going back to the farm, who does not wish to do the work of a trained engineer.

Students may specialize in Irrigation and Drainage, Farm Mechanics, Agricultural Surveying, Farm and Public Roads, Rural Architecture, Rural Sanitation and Public Health, or Agricultural Technology. These courses all lead to the degree of Bachelor of Science.

THE SCHOOL OF COMMERCE.

The purpose of the School of Commerce is to give opportunity for a liberal education with special emphasis upon the commercial and industrial phases of life. Persons who complete the Commercial courses should be better prepared to assume leadership and responsibility in business and in the various industries and professions. In order to meet the growing demands and to keep pace with recent tendencies in business education, students working for the bachelor degree may take their major in Economics and Political Science, designed for those who wish to take the greater part of their work in Economics, Law or kindred subjects; Accounting, designed for public accountants and those engaged in technical commercial work; and Industrial Management, designed to give the students a firm grasp of the essentials of agriculture, mining, manufacturing, economics, law and accounting, so that they may manage these industries successfully.

In addition to these college courses, Practical year and winter courses are offered.

For those who wish to enter the professions of law and medicine, the commercial courses afford excellent preparation. Students who complete the courses will be prepared for positions as teachers in commercial schools. The demand for thoroughly qualified teachers is greater than the supply, and many desirable positions as industrial managers are open to those who can do the work.

THE SCHOOL OF MECHANIC ARTS.

The course in Mechanic Arts is intended to qualify students as artisans and teachers of manual training, hence the practical work of the shops and drawing room is emphasized. The course admits of specialization in wood work, forging, machine work, foundry, horse-shoeing, carriage building and cabinet making. In this work are developed correct methods of using tools and of doing mechanical work neatly, efficiently and accurately. In all the departments of the school work is done from series of shop drawings, arranged in progressive order, giving both the deatails of the exercise and a drawing of the finished product. Sufficient work is given in English, mathematics and elementary science to furnish a college education. All products of the shop are the property of the school, students being allowed to take away specimens of their work only by permission.

The trades have changed greatly in recent years. Science has given them a secure foundation, and the wages of artisans have advanced so rapidly as to make the trades desirable as a means of livelihood. The lack of skilled artisans should encourage many boys to go into this kind of life work. The work offered by this school is a good preparation for engineering courses.

A four years' college course leading to the degree of Bachelor of Science is offered as well as short Practical year and winter courses.

THE SCHOOL OF GENERAL SCIENCE.

To carry out the work of the several technical schools of the College, an efficient instructing force and a complete modern equipment have been provided in the natural and physical sciences, as well as in mathematics, history, language, etc. This makes it possible to satisfy the growing demand for strong baccalaureate courses affording a broad general education in the earlier years,

and admitting of specialization later, when the student has matured his plans. Such courses constitute the work of the School of General Science, and, paralleling the other degree courses of the College, lead to the degree of Bachelor of Science.

Upon completion of four year's work in General Science, students receive the degree of Bachelor of Science in General Science.

SCHEDULE OF REQUIRED WORK.

Every regular student who has presented 14 units of high school work for entrance, must complete 120 semester-hours before receiving his or her diploma. Students who have presented for entrance 11 units of high school work, under the old requirement, must complete 140 semester hours before receiving their diplomas. Of the required 120 hours, 16, forming the major, must be in one department. The minor of 12 hours must be taken in the same school as the major. This is the so-called technical work. Besides this a certain number of hours must be taken of general work, divided variously into different groups. These amount to 64 hours. Besides these, 28 hours of elective work are required. This may be shown in tabular form as follows:

SUMMARY OF REQUIREMENTS FOR GRADUATION. (In Semester Credit Hours.)

Major Subject	16	hours
subject)	12	"
Language Group		66
Exact Science Group	24	"
Social Science Group	12	"
Biological Science Group	12	"
Elective	28	66

The departments of instruction from which the major and minor subjects may be elected are grouped as follows:

REQUIRED WORK.

Technical Division.

Major 16 hours in one department.

Minor 12 hours in other departments, but in the same school.

SCHOOL OF AGRICULTURE.

Agronomy Entomology Animal Husbandry Horticulture

Chemistry Veterinary Science

Bacteriology Botany and Plant Pathology

Dairying

SCHOOL OF AGRICULTURAL ENGINEERING.

Agricultural Surveying Roads

Agricultural Technology Rural Architecture Farm Mechanics Rural Sanitation

Irrigation and Drainage

SCHOOL OF HOME ECONOMICS.

Food and Dietetics Domestic Art

Home Sanitation and Construc- Art tion

SCHOOL OF COMMERCE.

Economics Typewriting (minor only)
Political Science Stenography (minor only)

Accounting

SCHOOL OF MECHANIC ARTS.

Wood Work

Iron Work

SCHOOL OF GENERAL SCIENCE.

English Physiology
Foreign Languages Entomology
History Zoology

Chemistry Music (minor only)

Geology Art

Mathematics Library Work

Physics Drill

Bacteriology Physical Education

Botany

The departments of instruction from which the general subjects may be elected are grouped as follows:

REQUIRED WORK.

General Division.

LANGUAGE GROUP (16 hours)

English Spanish German Latin

French

EXACT SCIENCE GROUP (24 hours).

Accounting Physics
Chemistry Mathematics

Geology and Mineralogy

SOCIAL SCIENCE GROUP (12 hours)

Economics Politcal Science
History Sociology

BIOLOGICAL SCIENCE GROUP (12 hours).

Bacteriology Physiology Botany Zoology

Entomology Veterinary Science

ELECTIVES—28 hours.

PRACTICAL COURSES.

When the Board of Trustees voted to begin the gradual elimination of all the regular high school courses in the fall of 1913, they also voted to establish a series of year and winter courses of a purely practical nature, in Agriculture, Home Economics, Mechanic Arts, and Commerce. These courses are not intended for young people of the high school age. To enter any of this work, a person must be over eighteen, or must have completed two years high school work. There will be no other entrance requirements, and no entrance examinations. Such are the courses given below. They are selected from the regular work of the college and these students are also allowed to take any course for which their training is adequate. No student is allowed to take work in Commerce, however, without taking at the same time some course in English.

AGRICULTURE.

FIRST YEAR.	SECOND YEAR.
Agronomy 1 4	Animal Husbandry 1 4
Horticulture 1 3	Irrigation 1 3
Veterinary Science 1 3	Entomology 1 3
Poultry 1 3	Dairying 1 3
Shop 5	Shop 5

HOME ECONOMICS.

Students elect a minimum of eighteen hours from the following subjects, or from these and any others which they are qualified to pursue.

1	1st Term.	2nd Term.
Domestic Art a and b	3	3
Domestic Science	5	5
Physiology 1	2	2
English a	5	5
Art	3	3
Gymnasium Work	1	1
Accounting 1	5	5

MECHANIC ARTS.

Students elect a minimum of eighteen hours of work from the following subjects or from these and any others which they are fitted to pursue, e. g., Agriculture, English, Accounting, Mathematics.

	1st Term. 2	0. d T
Carpentry a and b	1st Term. 2	na rerin.
Forging a and b		
Machine Work a and b	5	5
COMMERCE.		
FIRST YEAR.	1 Taum (D., 4 T.,
English	1st 1 erin. 2	ing rerm.
Business Correspondence		
Accounting a		
Stenography a	5	5
Typewriting	1	1
Physical Education	1	1
•		-
	20	20
	20	20
SECOND YEAR.	_	_
English	5	5
Accounting b		
Stenography b	5	5
Commercial Arithmetic	3	3
Typewriting		
Drill		
	20	20
THIRD YEAR.	20	20
Accounting c	5	5
English		
Economics 11		
Drill		
Electives	0	6
	18	18

WINTER COURSES.

Winter courses will begin Tuesday, November 18, and close Saturday, March 28, as follows:

AGRICULTURE.

FIRST YEAR.	SECOND YEAR.
Crops and Soils 5	Stock Judging 5
Fruit Growing 5	Insect Pests 5
Poultry Keeping 5	Veterinary Science 5
Shop Work 5	Farm Accounting 5
·	Shop 5
(Not more than four may be	
MECHANIC ARTS AN	ID AGRICULTURAL
ENGINE	ERING.
Farm Buildings and Machinery	
Carpentry	
Forging	
Machine Work	
COMME	ERCE.
The following subjects will be	e offered from which winter stu-
dents may elect from 18 to 20 hou	rs.
English	
Business Correspondence and Spe	
Commercial Arithmetic	_
Penmanship	
Accounting 1	3

SPECIAL STUDENTS.

Students of mature age who do not wish to receive a college diploma are allowed to make such selection of studies in any school as they desire, provided they have done enough preliminary work to carry the courses successfully.

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Economics				-							
Political Science				+-					-		
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Departments of Instruction.

ACCOUNTING COURSE.

Assistant Professor Parley Peterson.

SHORT COURSES.

a. Elementary Bookkeeping. Training in the art of bookkeeping based upon the fundamental principles of modern Accountancy. Entries are made to purchases, sales, and inventory accounts. Subsidiary Trading and Profit and Loss accounts are thoroughly explained. Thorough drill in the preparation of Trading and Profit and Loss statements and statements of Resources and Liabilities, given. Two hours daily throughout the year. Ten credits.

1:50 to 3:30 daily.

b. Bookkeeping and Business Practice. A continuation of the work done in course a. In the second term, the student employs the principles previously learned in a manner approaching as nearly as possible to actual business. He performs complete transactions with the firms represented in the office-practice department. As much of the work is done by correspondence, special emphasis is given to letter writing. Two hours daily throughout the year. Ten credits.

1:50 to 3:30 daily.

c. Bookkeeping and Office Practice. In the first half of this course the student will be given instruction in the use of the various office appliances—filing systems, mechanical devices, short-cut and time saving methods, etc. In the latter half, the students will be employed successively in offices representing various lines of business, wholesale and retail merchandising, real estate, and insurance, commission, railway station work, and banking, Corporation organization and accounting are emphasized. Two hours daily througout the year. Ten credits.

1:50 to 3:30 daily.

- d. Farm Bookkeeping. A course intended to supply the needs of students doing work in the short courses in Agriculture. Laboratory and lectures. Winter course work.
- e. Commercial Arithmetic. This is a complete course in commercial mathematics. Particular attention is given to business measurements, and to percentage and interest as applied to profit and loss, commission, stocks and bonds, insurance, bank discount, averaging accounts, and partnership adjustments. Short methods are emphasized. Three hours throughout the year. Six credits.

Tu. Th. Sat. 8:30.

f. Business Correspondence and Spelling. This course is designed for first year students. Practice in the writing of all kinds of business letters is given and the correct use of all business blanks and forms is emphasized. The latter part of the course is devoted to the acquiring of a business vocabulary. Two hours throughout the year. Four credits.

Tu. Th. Sat. 1:10.

COLLEGE COURSES.

1. Principles of Accounting. Primarily a course in theory. Enough practical bookkeeping is given to supply the needs of those students who have not had sufficient training before entering the course. Some of the subjects treated are: the theory of Double Entry Bookkeeping, balance sheet, assets and their valuation. Depreciation, liabilities, surplus, reserves, sinking funds, etc. Practical problems will be given. Two lectures and four hours laboratory work throughout the year. Six credits.

Wed. Fri. 9:20 to 10:10, Tu. Th. 9:20 to 10:10.

2. Systems of Accounts. A thorough study of the leading accounting systems of today such as Building and Loan Associations, Life and Fire Insurance Companies, Banks, Trust Companies, Creameries, Department Stores, Electric Lighting, Steam Railway, Electric Railway, Municipalities, and Executors'

and Trustees' Accounts. The first semester will be devoted to a study of these systems with occasional visits to representative local business firms; the second will be largely office practice. Each student will be required to outline and install a system of accounts for at least one of the school offices and to supervise successively, the work of the office-practice students. Four lectures a week the first semester and two hours daily office-practice work the second. Eight credits.

1:50 to 3:30 daily.

- 3. Practical Accounting. This course gives special attention to the working out of various published reports and balance sheets, and the solution of such accounting problems as are likely to arise in actual practice. It is essentially the case method applied to accounting. Three hours throughout the year. Six credits.
- 4. Cost Accounting. A half course dealing with Cost Accounting, Factory Organization and Systematizing. Two lectures and one three-hour laboratory period, one term. Three credits. Not given in 1913-1914.
- 5. Corporation Accounting. A half course intended to give practical training in all the phases of corporate organization, and accounts. Two lectures and one laboratory period, one term. Three credits.

Not given in 1913-1914.

6. Auditing. A full course, open only to those sufficiently qualified, covering the field of auditing and investigations. Besides the theoretical study of this subject students will have the opportunity to audit the accounts of the school offices. Three hours throughout the year. Six credits. (Will alternate with courses 4 and 5.)

Not given in 1913-1914.

7. Household Accounts. Intended to meet the needs of

students in the School of Home Economics. Two lectures and two two-hour laboratory periods, first term. Three credits.

Lec. Tu. Th. 10:10, Lab. Wed. Fri 9:20 to 11:00.

8. FARM ACCOUNTS. Intended for students in the school of Agriculture. Two lectures and two two-hour laboratory periods, second term. Three credits.

Lec. Tu. Th. 10:10, Lab. Wed. Fri 9:20 to 11:00.

AGRICULTURAL ENGINEERING.

IRRIGATION AND DRAINAGE.

Professor Harris.

Professor R. B. West.

1. ELEMENTARY IRRIGATION AND DRAINAGE. An elementary course designed especially to meet the requirements of the student who can give but a limited time to the subject. Lectures on field irrigation and methods of farm drainage. Field excursions to irrigation systems and practical drainage operations. Three hours, one term. Three credits.

Tu. Th. Sat. 8:30.

2. IRRIGATION PRACTICE. This course deals with the agricultural rather than with the engineering side of irrigation. It treats of methods of handling the water after it has reached the land, and of the relations between moisture and crops. Those periods in the growth of plants especially influenced by moisture-environment, and the effect of this environment on the yield and composition of crops will be given special attention. Prerequisites, Botany 1 and Agronomy 14. Two lectures and one laboratory period, second term. Three credits.

Lec. Th. Sat. 8:30, Lab. Fri. 1:50 to 4:20.

3. FARM DRAINAGE. This is a technical course, dealing with the laying out and constructing of drainage systems in arid

regions. Special attention will be given to the drainage of alkalı lands. Three hours, first term. Three credits. Prerequisites, Irrigation I and Plane Surveying.

Tu. Th. Sat. 1.

4. IRRIGATION SYSTEMS. In this course irrigation systems are studied as units. Such problems as the planning and conducting of irrigation projects, forming companies, getting rights, laying out and constructing canal systems, will be discussed. Trips will be made to inspect some of the important irrigation projects of the State. Prerequisites, Irrigation I, Plane Surveying, Hydraulics, and Rural Architecture 3 and 4. Three hours, second term. Three credits.

Tu. Th. Sat. 1.

- 5. Irrigation Management. This course deals with methods of managing irrigation canals after they have once been put into operation. It discusses methods of keeping the canal in repair, and properly distributing the water to users. It will be especially valuable to water masters. Two hours, first term. Two credits.
- 6. Irrigation Institutions and Economics. This course treats of the relation of irrigation to various industries and to the country in general. It also discusses the law regulating the use of water. Two hours, second term. Two credits.
- 7. Hydraulics. This is a technical course dealing with the flow of water in natural and artificial open channels, in pipes and flumes; the elementary laws of liquids in motion and at rest; and the elementary principles of water power development. Three hours, second term. Three credits.

Tu. Th. Sat. 8:30.

8. RAINFALL AND RIVER FLOW OF THE WORLD. A general survey of the regions of the world where the rainfall is so light as to require irrigation; the available supply of irrigation water in streams, and the possible methods of increasing that supply by reservoirs, etc. Two hours, one term. Two credits.

FARM MECHANICS.

Professor F. L. West. Mr. Humpherys.

1. Farm Machinery. A general course dealing with the machines used on the farm, their development, design, construction, operation, draft, durability and care. The students will be made familiar with mechanical principles and will have practice in handling common farm machinery. Two lectures and one laboratory period, first term. Three credits.

Lec. Wed. Fri. 1, Lab. Wed. 1:50 to 4:20.

2. GASOLINE ENGINES. A detailed study of the most modern types of gasoline engines. Considerable time and attention will be paid to the design and the working of the different parts and practice in handling the engines under various conditions. Two lectures and one laboratory period, second term. Three credits.

Lec. Wed. Fri. 1, Lab. Wed. 1:50 to 4:20.

3. TILLAGE AND HARVESTING MACHINERY. A detailed study of the various implements used in preparing the land for seed and in cultivating the crop. The complicated parts of harvesting machinery will be examined, and students will have practice in adjusting and operating these machines. One lecture and one laboratory period, second term. Two credits.

Lec. Wed. 1:10, Lab. Fri. 1:50 to 4:20.

4. Machinery of Farm Manufacturing. This is a brief course dealing with the installing and operating of machinery for special purposes, such as darying, canning, etc. One lecture and one laboratory period, first term. Two credits.

Lec. Wed. 1:10, Lab. Fri. 1:50 to 4:20.

5. Tractors. A detailed study of steam and internal combustion tractors and practice in handling them. Two lectures and one laboratory period, second term. Three credits.

Lec. Wed. Fri. 8:30, Lab. Wed. 1:50 to 4:20.

AGRICULTURAL SURVEYING.

Assistant Professor R. B. West.

1. Plane Surveying. This course deals with the general methods of plane and topographic surveying, including the use of the transit level, compass, current meter, etc. and the adjustment of instruments. One recitation, two laboratory periods, one term. Three credits.

Lec. Wed. 8:30, Lab. Wed. Fri. 1:50 to 4:20.

- 2. FARM SURVEYING. This course is designed primarily for the students of Agriculture. Practice will be given in the handling of surveying instruments, in the running of land lines and ditch lines, in grading and leveling land, making profiles and laying out tile drains. One recitation, two laboratory periods, one term. Three credits. Prerequisite, Surveying 1.
- 3. Canal and Road Surveying. In this course instruction and practice will be given in the particular application of the surveying methods used in the laying out and contruction of Canals and Roads. Three hours one term. Three credits. Prerequisite Surveying 1.

Tu. Th. Sat. 12:10.

- 4. Soil and Other Agricultural Surveys. Instruction in the methods of preparing maps of a given agricultural area, and surveys of the various agricultural interests within the area, under a specialist in the particular line. Three hours one term. Three credits.
- 5. Mapping. The aim of this course is to give practice in the mapping of the various kinds of surveys that might be encountered by the Agricultural Engineer. Two laboratory periods per week. Two credits.

Tu. Th. 1:50 to 4:20

ROADS.

Professor Wm. Peterson.

1. Road Construction. The course includes a study of road location, grade, drainage, resistance to traction, road materials, cost of construction and of machinery for preparing road material. Prerequisite: Surveying I. Three hours first term. Three credits.

Tu. Th. Sat. 12:10.

2. ROAD MAINTENANCE. The effect of width of tires and size of wheels, keeping the road in proper form, repairing worn surfaces, maintaining proper drainage, employment of labor, cost of maintenance, comparison of different road machines. Prerequisite, Roads 1. Three hours. Three credits.

Tu. Th. Sat. 12:10.

- 3. Bridge Building. A course dealing with methods of bridge construction, a study of materials used, and the amount of stress on arches of various kinds. The relative cost, strength and durability of different bridges will be discussed. Special attention will be given to small bridges on the farm. Three hours, one term. Three credits.
- 4. ROAD MATERIALS. In this course a detailed study will be made of the various materials used in the construction and maintenance of roads. Special attention will be given to the materials which are available to Utah farmers. Prerequisite, Geology 2. Three hours, one term. Three credits.

RURAL ARCHITECTURE.

Assistant Professor R. B. West.

1. FARM STRUCTURES. This is a course dealing with the arrangement, design and construction of barns, stables, poultry houses, silos, fences, gates, and other farm outbuildings. Three hours, first term. Three credits.

Tu. Th. Sat. 10:10.

- 2. FARM HOMES. This course deals with methods of atranging and planning houses suited to the conditions of the farm. Special attention will be given to houses within the reach of the average farmer. Three hours, second term. Three credits.
- 3. Materials of Construction. A study of the materials used in construction; their strength and resistance, action under various methods of loading, the stress set up in beams, columns, and girders; and problems in the design of structural parts. Special attention will be given to building materials which are available to Utah farmers. Three hours, one term. Three credits.

Tu. Th. Sat. 9:20.

4. Graphic Analysis of Frame Structures. Diagrams for steady load, snow and wind, the stress on arches with steady and shifting load, the kind of trusses in common use, and the solution of various problems that arise in the design of such trusses. Three hours, one term. Three credits.

Tu. Th. Sat. 9:20.

5. CONCRETE CONSTRUCTION FOR AGRICULTURAL PURPOSES. A study will be made of various mixtures of cement and the uses that can be made of them. The use of concrete in the making of barns, water troughs, posts, etc., will be discussed. Two hours, one term. Two credits.

Tu. Th. Sat. 10:10.

- 6. Drafting. A course in drawing plans for buildings, including detailed drawings of parts, cross sections, etc. This course deals with the technique of drafting rather than with creating plans. Three hours, one term. Three credits.
- 7. Planning of Farm Structures and Homes. This course treats of the making of plans for farm buildings, including complete specifications, cost of materials, and erection. Time and credit to be arranged with instructor.

RURAL SANITATION.

Prof. E. G. Peterson.

1. Sanitation. A general course in the principles of sanitation in relation to rural homes and communities. The nature of disease; methods of its spread and means of prevention; the most sanitary methods of arranging and constructing farm buildings; methods of disinfecting. Prerequisite, Bacteriology 1. Three hours, one term. Three credits.

Tu. Th. Sat. 12:10.

- 2. Rural Water Supplies. Methods of supplying farm homes and rural communities with sanitary water. Special attention will be given to Utah conditions. Three hours, one term. Three credits.
- 3. Rural Waste Disposal. This course will discuss the methods of handling the waste of the farm and small town in a manner that will be both convenient and sanitary. Three hours, one term. Three credits.
- 4. Sanitary Analysis. This course will deal with methods of making chemical and bacterial analysis of water, milk, etc., for sanitary purposes. It is intended primarily as a training for inspection work. Prerequisite, work in chemistry and bacteriology. One lecture and two laboratory periods, one term. Three credits.
- 5. DISEASE PREVENTION. Arrangements will be made to have lectures on this subject by competent physicians and others. Special attention will be given to rural conditions. The course will be of a popular nature and will be open to all students of the College. Two hours, one term. Two credits.
- 6. Sanitary Statistics. This will be a course in vital statistics, showing the effects of sanitary precautions on the death rate. Comparisons will be made of the death rate of cities and country communities. Methods of getting statistics and determining death rate will also be discussed. Two hours, one term. Two credits.

AGRICULTURAL TECHNOLOGY.

Professor Porter.

1. Manufacture of Agricultural Products. This is a general course dealing with the conversion of the raw materials of the farm into finished products. The course will cover in a general way the processes of manufacturing beet sugar, starch, soap, vinegar, pickles, alcohol, molasses, commercial fertilizers, paper, turpentine, lime, cement, and glass. Special attention will be given to the factories in operation in Utah and to industries that could profitably be developed in this State. Visitis to several factories operating in the State will be required. Prerequisites, Chemistry 1 and 3. Three hours, second term. Three credits.

Tu. Th. Sat. 12:10.

- 2. Manufacture of Beet Sugar. This course will deal with the practical methods of obtaining sugar from the beets. Factory methods will be studied in detail from the standpoint of the student who intends to go into sugar factory work. The chemical work of determining the acidity, alkalinity and purity of the juice in various states, and the estimates of sugar by the polariscope, will be given careful attention. Prerequisites, Agricultural Technology 1 and Chemistry 2. Two lectures and one laboratory period, first term. Three credits.
- 3. MILLING AND CANNING INDUSTRIES. Two lectures and one laboratory period, second term. Prerequisites, Agricultural Technology 1 and Bacteriology 1. Three credits.

AGRONOMY.

Dr. F. S. Harris.

a. ELEMENTARY AGRONOMY. A general course dealing with the principles of crop production. Designed for students with

little or no previous training in the sciences who wish in a short period to get practical information regarding crops and soils. Lectures, recitations and written reports. Four hours, first term. Four credits.

Lec. Tu. Th. Sat. 9:20, Lab. Tu. 1:50 to 4:20.

3. Cereal Crops. Lectures, recitations and laboratory practice on the history, cultivation, production, and marketing of cereal crops. The course is designed to give an intimate knowledge of the plants and a basis for judging their products. Two lectures and one laboratory period, one term. Three credits.

Lec. Wed. Fri. 10:10, Lab. Th. 1:50 to 4:20.

4. Forage, Root and Miscellaneous Crops. Lectures, recitations, and laboratory practice on alfalfa, clovers, grasses, sugar beets, potatoes, and other crops. In the laboratory the plants and their products will be studied in detail. Field trips will also be taken. Two lectures and one laboratory period, one term. Three credits.

Lec. Wed. Fri. 10:10, Lab. Th. 1:50 to 4:20.

5. SEEDS. Judging of wheat, oats, barley, corn, potatoes, etc., and a study of market grades and adulterations. The quality and preservation of seeds; their storage, shrinkage, vitality, germination, methods and depth of planting and methods of treatment to prevent diseases. Class room, laboratory and field work. Prerequisite, Agronomy 3. Two hours, first term. Two credits.

Alternates with Agronomy 6.

Lec. T. 10:10, Lab. Fri. 1:50 to 4:20.

6. Weeds. This course includes lectures with class and laboratory exercises on the occurrence, identification, and best methods of eradication of the principal noxious weeds of the State. Each student will be required to classify and mount a number of specimens for the department herbarium. Prerequisite, Botany 1. One recitation and one laboratory period, first term. Two credits. Not given in 1913-14.

- 8. Soil Management. A practical course, dealing with the application to actual farming operations of the principles studied in Chemistry 5a. It is designed to meet the needs of farm managers, giving them a knowledge of the most approved methods of handling western soils. It treats such subjects as time and method of plowing and other tillage operations; the rotation of crops; the methods of conserving soil moisture; methods of manuring; the improvement of alkali soils; and such other practical operations and problems as are encountered in the management of soils. Lectures and demonstrations. Prerequisite, Chemistry 1. Three hours, first term. Three credits.
 - Lec. Wed. Fri. 8:30, Lab. Wed. 1:50 to 4:20.

9. Compared as to their origin, composition, and agricultural value. The various soil provinces and types of United States and especially those of the arid regions will be investigated and the methods of their classification discussed. The soils of Utah will be taken up in detail; the crops adapted to them, and the treatment they should receive will be given special attention. Prerequisite, Agronomy 8 and Agricultural Surveying 1. Two hours, one term. Two credits.

Alternates with Agronomy 10. Not given during 1913-1914.

10. Advanced Soils. A discussion of the chemical, physical, and biological properties of soils. The course will treat of the methods of soil investigation and theories of fertility; the relation between soils and crops and the ultimate effect of certain soil treatments. Special study will be made of the soil solution and of the movements of moisture in the soil. Prerequisite, Agronomy 8. Lecture and laboratory, second term. Four credits.

Alternates with Agronomy 9.

Wed. Fri. 9:20.

11. ADVANCED LABORATORY IN SOILS. Experiments covering somewhat the same field as covered by the lectures in Agron-

- omy 10. Exercises will be given dealing with the soil solutions, the fixation of substances added to the soil, soil moisture relations, alkali, and similar subjects. Agronomy 10 must precede or accompany this course. Two hours or more, second term. Credits to be arranged.
- 12. Manures. This course deals with the sources, uses, and effects of artificial fertilizers and amendments; the kinds, compositions, functions, and deterioration of farm manures and the economical methods of their use. Experiments with manures conducted at different stations will be discussed in detail. Prerequisite, Agronomy 8. One hour, second term. One credit.

Tu. 8:30.

14. DRY-FARMING. Instruction is given in the methods best adapted to the growing of profitable crops on arid lands; the treatment of the soil, including the conservation of soil moisture by deep and fall plowing, mulching, etc.; the soils and crops best adapted to arid farming; and the regions offering favorable conditions for its successful practice. The experiments being carried out at the different arid experimental farms of the State are discussed. Three hours, first term. Three credits.

Tu. Th. Sat. 8:30.

- 15. Irrigation Practice. See Irrigation and Drainage 2.
- 16. Farm Management. This course meets the needs of those who expect to conduct practical farming operations. It treats of the selection and laying out of a farm, the kind of farming which should be carried on in a given locality, the proper balance between the various activities of the farm, the rotation of crops, raising and marketing different kinds of crops and animals, keeping farm records, the profitable employment of labor, and similar questions of profitable farming. Its purpose is to bring together the facts learned in the various technical courses and apply them to a rational system of farming. Prerequisites, Economics and as many courses as possible in Agronomy, Animal

Husbandry, and Horticulture. Three hours, second term. Three credits.

Lec. Wed. Fri. 8:30, Lab. Wed. 1:50 to 4:20.

19. Seminar. Each week the advanced students of Agronomy will meet for one hour to review current agronomic literature, discuss agricultural problems, and report on assigned topics. Required of seniors specializing in Agronomy; open also to juniors. One hour throughout the year. Two credits.

Wed. 12:10.

20. Research. Seniors specializing in Agronomy may elect research work in any branch of the subject. Time and credit to be arranged with instructor.

ANIMAL HUSBANDRY.

PROFESSOR CAINE III.
ASSISTANT PROFESSOR ALDER.
MR. CANNON.

1. Market Types. The judging of market types of horses, cattle, sheep, and swine. Some score card practice will be given, but most of the work will be comparative judging of groups of animals. Two class and two laboratory periods, one term. Four credits.

Prerequisite for all other courses in Animal Husbandry. Lec. Wed. Fri. 10:10; Lab. Wed. Fri. 1:50 to 3:30.

2. Breed Types. The work covers the origin, history and characteristics of the different breeds of horses, cattle, sheep, and swine, especial stress being laid upon their adaptability to Western conditions. In addition instruction is given in the judging of representatives of different breeds according to their official standard. Three lectures throughout the year. Six credits.

Tu. Th. Sat. 9:20.

3. Animal Nutrition. A brief study of the anatomy and

physiology of the digestive system; the purpose of nutrition; the theory and practice of feeding, with especial reference to Utah conditions. Three lectures throughout the year. Six credits.

Tu. Th. Sat. 8:30.

4. Principles of Breeding and Herd Book Study. The laws of heredity, correlation, reversion, variation, fecundity; the methods of breeding, cross-breeding, in-and-in breeding, and selection. This work will be followed by a study of the various herd books and of the pedigrees of noted individuals of the important breeds. Prerequisite, first term of Zoology 3. Three lectures, one term. Three credits.

Tu. Th. Sat. 12:10.

5. LIVE STOCK MANAGEMENT. The housing, care and management of different classes of live stock, with especial attention to Western conditions. One lecture and two laboratory periods, one term. Two credits.

Tu. Th. 1:50 to 4:20.

6. ADVANCED STOCK JUDGING. A course in the judging of groups of animals of all classes. Attendance at the State Fair and at all accessible county fairs is required as part of this course. Prerequisites, Animal Husbandry 1 and 2. Two laboratory periods, first term. Two credits.

Wed. Fri. 1:50 to 4:20.

9. Seminar. The advanced students of Animal Husbandry and Dairying meet once a week with instructors of the department to review the current literature and special phases of these subjects. Two long reports on assigned subjects will be required. One hour throughout the year. Two credits.

Th. 1.

POULTRY HUSBANDRY.

1. General Poultry. A general study of the different breeds, judging and breeding, incubation, brooding, housing, feeding, and marketing, taken up in as much detail as time will permit.

Two recitations and one laboratory period, one term. Three credits.

Lec. Tu. Th. 9:20, Lab. Fri. 1:50 to 4:20.

2. Incubation and Brooding. Practical and experimental work in incubation and brooding. A study of the important factors which influence the hatching quality of eggs, both before and during the incubation period. Prerequisite, Poultry 1. One recitation and two laboratory periods, one term. Two credits.

Tu. Th. 9:20.

3. POULTRY MANAGEMENT. The housing, care, feeding and management of different breeds, with special attention to Western conditions. Prerequisites, Poultry 1 and Chemistry 1. One recitation and laboratory work according to special appointment. Credit according to amount of work done.

Wed. Fri. 9:20.

- 4. Breeds and Breeding. A study of the origin and development of the more important breeds and varieties of poultry; practice in judging; a review of the literature on breeding for utility and exhibition purposes. Prerequisites, Poultry 1, Zoology 2 and 3.
- 5. Anatomy, Physiology and Diseases of Poultry. The work on diseases will consist principally of the causes, and methods of identification and prevention. Prerequisite, Poultry 1. Two recitations and one laboratory period throughout the year. Three credits.

ART.

Assistant Professor Powell. Mr. Moser.

1. Nature Drawing and Design. Drawing with pencil, charcoal, pen and ink from plants, insects, and animals, to prepare students for scientific work, and develop their artistic sense; the study of the principles of design and their application; lectures on

the Renaissance and modern masters. Five hours throughout the year. Four credits.

Tu. Th. Sat. 9:20 and 1.

2. Design. Practical work in design; the fundamental principles of order, balance, rhythm and harmony. Five hours throughout the year. Four credits.

Any 2 days 8:30 to 11.

3. Freehand Drawing and Design. Linear perspective and sketching from objects with careful attention to pencil rendering; ornamental drawing from casts and decorative detail; constructive design of furniture and architecture. Five hours throughout the year. Four credits.

Any 2 days 8:30 to 11 or 1:50 to 4:20.

4. Home Art. A continuation of Art 2, with greater emphasis on applied design in stenciling, blockprinting, designing for art needlework, costume design and decoration. Seven hours, one term. Three credits.

Tu. Th. Sat. 1:50 to 4:20.

- 5. General Art Study. Pictorial art and composition; still-life and cast drawing with pencil, charcoal, pastel, water color, and oil. Lettering; and history of art. Five hours throughout the year. Four credits.
- 7, 8, 9. Scientific Drawing. These courses are designed for those wishing practice in microscopic drawing. Five hours a week for each course throughout the year. Four credits.

Tu. Th. Sat. 10:10.

- 10. HISTORY OF ART. A general course in the history of painting, sculpture and decoration. Two hours throughout the year. Four credits.
- 11. Aesthetics. A general course in the fundamentals of beauty as applied to the arts. Two hours throughout the year. Four credits.

- 12. Advanced Art Needlework. Daily 12:10.
- 13. Professional Costume Design.
- 14. Home Crafts. Instruction in design moulding, glacing and burning of pottery; special attention to instruction in fine leather tooling and embossing. Five hours throughout the year. Four credits.

Daily 12:10.

15. POTTERY AND CHINA DECORATION.

Tu. Th. 1:50 to 4:20.

- 16. Lettering.
- 17. Furniture Design. This course consists of design applied to furniture construction and lectures given that pertain to decorative design. Five hours throughout the year. Four credits.
- 18. Metal. Instruction in design and workmanship in metals. Four hours throughout the year. Four credits.
- 19. Interior Design. This course consists of wall paper, carpet and furniture design, with special attention to interior color harmonies. Five hours throughout the year. Four credits.
- 20. Studio Work. This course is a continuation of Art 5, giving advanced sculpture, water color, and oil painting. Five hours a week throughout the year. Four credits.

Daily 1:50 to 4:20.

If not stated above hours and credits for electives are to be arranged with the instructor.

BACTERIOLOGY.

Associate Professor Greaves.

1. General Bacteriology. The preparation of media, sterilization, staining, classification, general biology, cultural char-

acters of typical forms, quantitative and qualitative methods of examination; function, distribution, cultivation, and isolation of important forms. The relationship of bacteria to the various phases of agriculture will receive careful consideration. One term of laboratory work and lectures. Three credits.

Lec. Wed. 8:30, Lab. Wed. Fri. 1:50 to 4:20. Sec. term, Tu. Th. 1:50 to 4:20.

- 2. Household Bacteriology. After a brief survey of bacteriological methods and the biological characters of typical forms, the bacteria will be studied in relation to household economy; bacteria in milk, water and other foods; milk and water contamination; effects of cooling and pasteurization upon milk; yeasts, molds, and fermentation; bacteriology in relation to canning and preservation; thermal death point of important household species; action of disinfectants. Laboratory work and lectures, first term. Four credits.
- 3. Pathogenic Bacteriology. A course covering the fundamentals of the subject: morphology, classification, biology, distribution, function, cultural and staining characters, methods of cultivation, theories of immunity, the principles of applied bacteriology. A discussion of disease-producing organisms. One lecture and two laboratory periods, one term. Three credits.

Not given in 1913-1914.

4. Soil Bacteriology. A course covering the principles of soil bacteriology and fitting the student for original investigation. Exercises involving questions of relation of depth, moisture, character of soil temperature, chemical reaction, and aeration to bacterial life; ammonification, nitrification, denitrification, nitrogen fixation, cellulose fermentation, soil inoculation, including the isolation, rultivation and detailed examination of the organisms causing the changes. Chemical methods of interpreting bacterial fermentations are studied in considerable detail. Prerequisite, Bacteriology 1. Laboratory work, lectures and reports. Six hours, one term. Three credits.

Tu. Th. Sat. 1:50 to 4:20.

5. Dairy Bacteriology. A course covering the principles of dairy bacteriology. A consideration of the bacteria of milk, butter, and cheese; infectious diseases in their relation to the dairy; contamination by air, water, and utensils; desirable and undesirable fermentations. Prerequisite, Bacteriology 1. Laboratory work, lectures, and reports, one term. Three credits.

Not given in 1913-1914.

6. Research Work. The laboratory and library facilities are especially arranged to meet the needs of advanced students desiring to undertake bacteriological investigation with reference to agriculture, household science, the industries, sanitary science, and veterinary science. Time and credit to be arranged.

BOTANY.

Professor Hill. Mr. Lauritzen. Mr. Richards.

a. General Botany. This course gives a general knowledge of plant structure, function, types of plants from lowest to the highest, elementary principles of forestry, plant breeding and ecology. Third or fourth year High School work. Two recitations and one laboratory period throughout the year. Six credits.

Prerequisite for all other courses in Botany.

Lec. Wed. Fri. 8:30, Lab. Fri. 1:50 to 4:20.

2. Flowering Plants. Principles of the classification of flowering plants with special reference to economic plants. One lecture and five hours of laboratory work, ten weeks in the fall and ten weeks in the spring. Three credits. (Given every other year.)

Lec. Wed. 9:20, Lab. Wed. 1:50 to 4:20.

3. Histology. Includes a study of the cell and plant tissues, together with histological technique, sufficient to prepare permanent mounts. One lecture and five laboratory periods, second term. Three credits.

Lec. Wed. 12:10, Lab. Tu. Th. 1:50 to 4:20.

4. Plant Physiology. A study of the processes and functions of plants. The course is introduced by a general study of plant structure. Two lectures and two laboratory periods throughout the year. Six credits.

Lec. Wed. Fri. 10:10, Lab. Tu. Th. 1:50 to 3:30.

5. Plant Diseases. A general study of the history, nature, cause, and control of plant diseases. One lecture and five laboratory periods throughout the year. Six credits.

Lec. Fri. 9:20, Lab. Wed. Fri. 1:50 to 4:20.

- 6. Economic Botany. A study of food, fiber, medicinal, and spice plants, and their principal products. Three lectures and one laboratory period, second term. (Not given in 1913-14.)
- 7. Ecology. A study of the plant in relation to its surroundings. Three lectures and laboratory or field work, first term. Five credits. (Not given in 1913-14.)
- 8. Seminar. For advanced students. A discussion of current literature. One hour throughout the year. Two credits. Fri. 12:10.
- 9. Research. Students specializing in botany will be given opportunity in their jnior and senior years to do original investigation. Credit according to time.

CHEMISTRY.

Professor Stewart.
Professor Greaves.
Assistant Professor Porter.
Mr. Hirst.

1. General Chemistry. This course deals with the important and fundamental theories of chemistry, and with the applications to the arts and manufactures. The laws of chemical combinations, the writing of reactions, and the solving of chemical problems are given careful consideration. Three recitations and two laboratory periods throughout the year. Ten credits.

Sec. 1, Lec. Tu. Th. Sat. 9:20, Lab. Wed. Fri. 1:50 to 4:20.

2. Organic Chemistry. A brief survey of the more important reactions and compounds of the fatty and aromatic series of hydro-carbons and their derivatives. Special attention is paid to the chemistry of the fats, the carbohydrates, the proteins, the amino acids, and the dyes. Three recitations and two laboratory periods, first term. Five credits.

Sec. 2, Lec. Tu. Th. Sat. 10:10, Tu. Th. 1:50 to 4:20.

3. Organic Chemistry. Lectures and assigned readings on the organic chemical problems of agriculture. After a study of the fundamental principles of organic chemistry, a systematic study is made of carbohydrates, fats, and proteins. This course furnishes agricultural students with the necessary groundwork for future work in physiological botany and physiology. Three recitations and one laboratory period, first term. Four credits.

Lec. Tu. Th. Sat. 8:30, Lab. Wed. Fri. 1:50 to 4:20.

5. Soils. A study of the methods of the analysis of soils in their relation to crop production; soils of the arid and humid regions; alkali soils, their nature and composition, utilization and reclamation; soil fertility and methods of maintenance; the value,

composition and preservation of barn-yard manure. Prerequisite, Chemistry 1. Five hours, second term. Four credits.

Lec. Tu. Th. Sat. 1, Lab. Tu. Th. 1:50 to 4:20.

6. QUANTITATIVE ANALYSIS. After becoming somewhat familiar with the common methods of quantitative analysis, the student analyzes various products, such as milk, butter, etc. Three laboratory periods throughout the year. Six credits.

Tu. Th. Sat. 1:50 to 4:20.

7. Physiological Chemistry. See Physiology 3.

Tu. Th. Sat. 12:10.

8. HISTORY OF CHEMISTRY. Two lectures per week throughout the year. Four credits.

Wed. Fri. 10:10.

- 9. Industrial Chemistry. Lectures and assigned reading on special chemical industries, e. g., the manufacture of sulphuric acids, soda, commercial fertilizers, lime and cement, glass and porcelain, pigments, sugar, starch, alcohol, soap, and explosives. Prerequisite, Chemistry 1. Three hours throughout the year. Six credits.
- 10. Advanced Organic Chemistry. In this course a systematic study is made of the compounds of carbon from the point of view of systematic organic chemistry. This course is designed for students who intend to make chemistry a profession. Two recitations and two laboratory periods throughout the year. Eight credits.

Lec. Wed. Fri. 9:20, Lab. Wed. Fri. 1:50 to 4:20.

11. Advanced Qualitative Analysis. This is mainly a laboratory course in qualitative analysis. Three laboratory periods throughout the year. Six credits.

Wed. Fri. 1:50 to 4:20.

12. Research Work. The laboratories of the College and Experiment Station are open to students with the necessary preparation who desire to pursue independent studies in chemistry.

The research carried on by the chemistry department of the Experiment Station is of great aid to the students who are engaged in the solution of scientific problems. Time and credit to be arranged with the instructor.

- 13. Physiological Chemistry. See Physiology 4.
- 14. Special Courses in Quantitative Analysis. Courses are offered in special phases of quantitative analysis to students who are qualified.
 - a-Water analysis.
 - b-Food analysis.
 - c—Soil analysis.
 - d-Urine analysis.
 - e-Gas analysis.

Time and credit to be arranged with the instructor.

15. Seminar. Members of the chemical faculty and senior students meet once a week for a discussion of assigned problems in chemistry.

DAIRYING.

Professor Caine III. Mr. Cannon. Mr. Bingham.

1. ELEMENTS OF DAIRYING. The secretion and composition of milk; testing for fat, acid, and adulterants; dairy sanitation; pasteurization; separation; manufacture of butter and cheese on the farm. Two lectures and one laboratory period, second term. Three credits.

Lec. Wed. Fri. 9:20, Lab. Mon. 9 to 12.

3. Dairy Farm Management. This course will consist of a brief review of the various breeds of dairy cattle, and methods of selecting the same and starting a dairy herd. Each student

will be required to submit an original plan of a dairy farm, estimating the values of the different sections of property, the expense of operation, and profits to be derived from the business. Prerequisite, Animal Husbandry 2. Two lectures throughout the year. Two credits.

Wed. Fri. 8:30.

- 4. Buttermaking. A course designed to meet the needs of creamery men. Prerequisite, Dairying 1. One lecture and two laboratory periods throughout the year. Six credits.
- 5. Cheesemaking. A course for cheese factory operators. A study of the manfacture of the different kinds of cheese. Prerequisite, Dairying 1. One lecture, and one laboratory period of six hours throughout the year. Six credits.
- 7. Research Work. A study of various important dairy subjects; a digest of recent dairy work of the experiment stations. Only advanced students are allowed to take this course. One hour throughout the year. Two credits.

DOMESTIC ART.

RHODA B. COOK.

CORAL L. KERR, B. S.

ALICE A. DUNFORD, B. S.

a. PLAIN SEWING I. Students are taught the fundamental principles of hand and machine sewing. Practice is given in the various hand stitches; in machine sewing; in the use and care of different makes of machines; the drafting of simple patterns; and the use of bought patterns. Each student makes an apron and suit of underwear. Eight hours, first term. Three credits.

Tu. Th. Fri. Sat. 9:20 to 11.

b. Plain Sewing II. A continuation of course I. The appropriate and economic use of materials is discussed. A study of the beginning of the textile industry from the historical and economic standpoint. A shirt waist and simple dresses are made. Eight hours, second term. Three credits.

Tu. Th. Fri. Sat. 9:20 to 11.

c. Dressmaking I. This course includes the making and use of patterns and the choosing and economical cutting of materials. Each student makes a skirt and waist of woolen or silk material, and also a fitted lining. Prerequisites, Domestic Art a and b and Art 2. Eight hours, first term. Three credits.

Sec. 1, Tu. Th. Fri. Sat. 9:20 to 11. Sec. 2, Tu. Th. 1 to 2:40, Wed. Fri. 1:50 to 3:30.

d. Dressmaking II. A continuation of course c. Each student fits and finishes a one-piece gown. Eight hours, second term. Three credits.

Sec. 1 Tu. Th. Fri. Sat. 9:20 to 11. Sec. 2 Tu. Th. 1 to 2:40, Wed. Fri. 1:50 to 3:30.

e. This course is designed for students especially interested in practical sewing. The fundamental principles of hand and machine sewing; the care and use of different makes of machines; the drafting of patterns; and the use of bought patterns. Each student makes an apron, a suit of underwear, and a wash dress. Eight hours throughout the year. Six credits.

Tu. Th. Wed. Fri. 1 to 2:40.

1. APPLIED ART I. This course deals with the application of color and design to textiles; the teaching of the fundamental stitches of needlework; the marking of household linen; French embroidery; the designing and making of a soft pillow cover or table runner. Prerequisite, Art 2, 4, or Domestic Science 8. Six hours, first term. Two credits.

Wed. Fri. Sat. 12:10 to 1:50.

2. APPLIED ART II. A continuation of course 1. Six hours, second term. Two credits.

Wed. Fri. Sat. 12:10 to 1:50.

3. ADVANCED DRESSMAKING. This course includes the study of materials; their economic, artistic, and hygienic values; dress as a factor in life; history of costume; modeling in paper and crinoline from copies and original designs; the making of two costumes. Prerequisites, Domestic Art a, b, c, d, Art 4 or Domestic Science 8. Lectures and laboratory work. Eight hours throughout the year. Six credits.

Tu. Th. 12:10, Wed. 9:20 to 11.

4. MILLINERY. This course includes the designing, construction, and trimming of hats; the making and alteration of wire and buckram frames; the covering of frames with silk, velvet, straw or other materials; selection of materials; their suitability and durability. Prerequisite, Art 2. Lecture and laboratory work. Four hours throughout the year. Four credits.

Wed. Fri. 12:10 to 1:50.

5. Designing and Modelling. This course includes line and design as adapted to various figures; copying of designs in crinoline or cambric; modelling and working out of original designs in correlation with Art 13. Prerequisites, Domestic Art 11, Art 2, 3, 13. Lectures and laboratory work. Four hours throughout the year. Four credits.

Tu. Th. 1:50 to 3:30.

ECONOMICS.

Professor Thomas.
Assistant Professor Hendricks.

1. Elements of Economics. This course explains the laws of man's economic activity. It is the basis of a scientific understanding of industrial conditions. Some of the topics studied are: Economic want, value, rent, wages, profits, interest. Three hours throughout the year. Six credits.

Tu. Th. Sat. 1:50.

2. General Economics. This course treats practically the same subjects as Economics 1, but in a more thorough manner. Three hours throughout the year. Six credits.

Tu. Th. Sat. 9:20.

- 3. HISTORY OF COMMERCE. Its development in Egypt, Greece, Rome, Florence, Medieval Europe; the commercial nations of modern times. Three hours throughout the year. Six credits.
- 4. ELEMENTS OF SOCIOLOGY. A general course in the foundations and principles of sociology, including a careful study of the social organs, social structure, and social activities. Three hours throughout the year. Six credits.
- 5a. Money. A general survey of the laws and forms of money and credit; the money question; the money market; experience and legislation of recent times. Three hours, first term. Three credits.

Tu. Th. Sat. 8:30.

- 5b. Banking. History and theory of banking in the United States and foreign countries; foreign exchanges. Three hours, second term. Three credits.
- 6a. Public Finance. A course dealing chiefly with the principles underlying public expenditures, revenues, and administration. Three hours first term. Three credits.

Tu. Th. Sat. 1.

- 6b. Taxation. A study of the methods of federal and state taxation, including the customs and internal revenue duties; income, business, inheritance, general property and corporation taxes. Three hours, second term. Three credits.
- 7. Corporation Finance. A study of corporate incomes, expenditures, debts and administration. A survey of the laws governing the growth of corporations, and the relationship to the State. Three hours, first term. Three credits.

Tu. Th. Sat. 9:20.

8. Economic History of the United States. The principal events of our political life are treated from the standpoint of their economic causation. The history of the tariff, money and banking, agriculture, manfacturing, etc., will be taken up. Three hours throughout the year. Six credits.

Tu. Th. S. 10:10.

- 9. Marketing of Products. The methods now practiced in the organization of the selling branch of industrial and merchandising business. The principal subjects in this field are: publicity, agency, advertising, forms and correspondence, credits and discounts. Two hours, throughout the year. Four credits.
- 10. RAILWAY TRANSPORTATION AND PRACTICE. The development of the railway system, railway finance, railway statistics; the theory of rates, methods of public control in Europe, Australia, and America. Three hours, second term. Three credits.

Tu. Th. Sat. 9:20.

11. Industrial and Commercial Law. A study of the elementary principles of law relating to common business transactions, including contracts, sales, promissory notes and bills of exchange, contracts of common carriers, agency, partnership and corporations. Three hours throughout the year. Six credits.

Tu. Th. Sat. 10:10.

12. AGRICULTURAL ECONOMICS. This course deals with the economic principles which underlie farm management, estate management and agrarian legislation. Especially adapted to Western conditions. Three hours, first term. Three credits.

Tu. Th. Sat. 12:10.

15. A RESEARCH COURSE IN ECONOMICS. Time and credit to be arranged with the instructor.

ENGLISH.*

b. Composition and Classics. Second year high school English. Study of classics; oral and written composition; special drill in paragraph writing; careful study of Gayley's classic myths. Five hours throughout the year. Ten credits.

Secs. 1 and 2, daily 1. Secs. 3 and 4, daily 10:10. Secs. 5 and 6, daily 9:20.

c. College Entrance Requirements and Composition. Third year high school English. Study of Classics; practice in the various forms of discourse; oral and written composition. Emphasis on correct English. Three hours throughout the year. Six credits.

Sec. 1, Tu. Th. Sat. 1. Sec. 2, Tu. Th. Sat. 10:10. Sec. 3, Tu. Th. Sat. 9:20.

Note. Students are not perimtted to take both English b and c in one year. English 22 and 24 are open to all students who have completed, or are taking English c.

COLLEGE COURSES.

6. HISTORY OF ENGLISH LITERATURE. A survey of the chief movements in the literature of Great Britain from the Anglo-Saxon period to the present day. The greater part of the time is given to the post-Elizabethan literature. Three hours throughout the year. Six credits.

Sec. 1, Tu. Th. Sat. 12:10. Sec. 2, Tu. Th. Sat. 9:20.

7. College Rhetoric. Special attention is given to the

^{*}English a, first year high school English, consisting of the principles of elementary correctness in oral and written composition, may be given for students in the Short Practical Courses.

Sec. 1, daily 1. Sec. 2, daily 10:10.

forms of prose discourse. The work consists chiefly of themes. Prerequisite, English 6. Two hours throughout the year. Four credits.

Sec. 1, Wed. Fri. 8:30. Sec. 2, Wed. Fri. 10:10.

8. Advanced Composition. A review course in technical grammar including much class-room drill, and a certain amount of written work. Students conditioned in English, may remove the condition by taking English 8. Two hours throughout the year. Four credits.

Tu. Th. Sat. 8:30.

- N. B. Prerequisite for all the following electives, except 22 and 24, English 8. Prerequisite, in addition, for 10, 11, 13, 15, and 21, one year of French or German.
- 10. Shakspere. Elizabethan drama and the chief contemporaries of Shakspere; the development of Shakspere as dramatist; special difficulties in his English; careful study of all his plays and sonnets. Three hours throughout the year. Six credits.

Tu. Th. Sat. 1.

11. The Modern Drama. A study of the stage of to-day, and of recent and living dramatists. Two hours throughout the year. Four credits.

Not offered in 1913-1914.

- 12. American Literature from the Colonial times to the present, keeping in view contemporary development in English literature. Three hours throughout the year. Six credits.

Tu. Th. Sat. 1.

13. English Novel. Its origin, development, and most important types. The short-story is also considered. Three hours throughout the year. Six credits.

Tu. Th. Sat. 10:10.

14. MILTON. Two-hours throughout the year. Four credits.

Not offered in 1913-1914.

15. General Literature, or elementary comparative literature. A study of the movements, chief authors and chief works in the literatures of civilized mankind. Three hours throughout the year. Six credits.

Tu. Th. Sat. 12:10.

- N. B. English 17, 18, and 19, are given successively every three years. English 17 is offered in 1913-1914. In each course the history of the period is studied.
 - 17. THE SEVENTEENTH CENTURY. In English literature, with one emphasis are the Puritan and Restoration periods. Three hours throughout the year. Six credits.

Tu. Th. Sat. 9:20.

18. THE EIGHTEENTH CENTURY. Classicism and romanticism; the novel and the drama. Three hours throughout the year. Six credits.

Not offered in 1913-1914.

19. The Nineteenth Century. The culmination of romanticism, the rise of the novel, the Victorian era Three hours throughout the year. Six credits.

Not offered in 1913-1914.

20. Argumentation and Debating. Practical work in briefing and Debating, and in argumentative writing and speaking. Two hours throughout the year. Four credits.

Wed. Fri. 1.

21. The Arthurian Legends in English and continental literature. Two hours throughout the year. Four credits.

Not offered in 1913-1914.

22. ELOCUTION. First year work in reading and interpretation. Intended for high school students. Prerequisite, English b. Three hours throughout the year. Six credits.

Tu. Th. Sat. 8:30.

23. Advanced Elocution. Chiefly for college students. The principles of oral and literary expression, applied in the main to the interpretative study of masterpieces. Two hours throughout the year. Four credits.

Wed. Fri. 9:20.

24. Public Speaking. Practical training in the formal address, the eulogy, the oration, the debate, the toast, and other forms of public addresses. Three hours throughout the year. Six credits.

Tu. Th. Sat. 1:50.

25. JOURNALISM. A study of magazine and newspaper writing, with special attention to college journalism. Two hours throughout the year. Four credits.

Wed. Fri. 12:10.

ENTOMOLOGY.

Dr. Titus.

a. Economic Entomology. An elementary course intended to give students a general knowledge of insects and their relation to man and his products as well as the best means of controling injurious insects. Three hours, one term. Three credits.

Tu. Th. Sat. 10:10.

2. Systematic Entomology. A course in the structure and classification of insects. Students are required to collect, mount, and identify the more common varieties. The laboratory work consists of dissecting and classifying insects. Two lectures and one laboratory class throughout the year. Six credits.

Lec. Wed. Fri. 10:10, Lab. Tu. 1:50 to 4:20.

3. Economic Entomology. An advanced course in Economic Entomology, in which full treatment and special attention

are given to insects of the Intermountain region. Students are required to become familiar with methods of control used in other regions, and their results. Two lectures and one laboratory period. Three or six credits.

Lec. Wed. Fri. 8:30, Lab. Wed. 1:50 to 4:20.

4. Entomological Literature. Each student is expected to investigate the literature on some particular insect. The general history of entomology is covered in a series of lectures. Prerequisite, Entomology 2 or 3. Three lectures throughout the year. Six credits.

Alternates with Entomology 5.

Tu. Th. Sat. 9:20.

5. Advanced Entomology. A course of research work for students intending to teach or to go into government or experiment station work. A thesis on classification and general economic consideration of some special group will be required of each student. Prerequisite, Entomology 2 or 3. Three to six credits.

Alternates with Entomology 4.

FOODS AND DIETETICS.

a. This course considers sanitation applied to food and the simple principles of cooking and serving. It includes a study of milk, canning of fruit, cooking of eggs, meat, vegetables, fruits, and batters; proper care of the kitchen and dining room and their furnishings; and the serving of a meal. Two laboratory periods throughout the year. Four credits.

Sec. 1, Tu. Th. 1:50 to 4:30. Sec. 2, Wed, Fri. 1:50 to 4:30.

- b. Same as (a) but given in a shorter time to accommodate winter course students.
- 1. Preparation of Food. This course considers the principles of cooking; the buying of foods; the preparation and serving of meals within a given sum of money. Prerequisite or parallel,

Chemistry 1 and Botany 1. Two laboratory periods throughout the year. Four credits.

Sec. 1, Tu. Th. 12:10 to 1:50. Sec. 2, Wed. Fri. 12:10 to 1:50.

2. Experimental and Demonstrative Cookery. This course includes lectures and laboratory work in the chemical composition of foods; the action of heat, cold and alkali on foods; a study of recipes; cost of materials; each student plans and gives one demonstration. Prerequisite, Domestic Science 1, Physics 1, Chemistry 2. One lecture and two laboratory periods throughout the year. Six credits.

Lec. Th. 10:10, Lab. Wed. Fri. 1:50 to 4:20.

3. DIETETICS AND NUTRITION. This course deals with the principles of human nutrition and the application of these principles to the diets of individuals and families under varying conditions of living. It includes a discussion of metabolism of food stuffs; dietaries and their construction; the relation of diet to health; and the economy of foods. Prerequisite, Chemistry 7. Two lectures and one laboratory period throughout the year. Six credits.

Lec. Wed. Fri. 10:10, Lab. Th. 1:50 to 4:20.

4. Household Chemistry. The analysis of air, water, foods and fuels. The course includes complete analysis of air, water, milk, cheese, butter and flour; the detection of adulterants and preservatives; the analysis of fats; theory of saponification; the processes involved in the manufacture of soap; analysis of leavening agents; and the chemistry of textiles. One lecture and six hours of laboratory work per week throughout the year. Six credits.

Lec. Wed. 9:20, Lab. Wed. Fri. 1:50 to 4:20.

GEOLOGY AND MINERALOGY.

PROFESSOR WILLIAM PETERSON.

1. Physiography. Topics to be studied will include: the Earth as a body in space; surface structure; erosion, aggradation,

etc.; the atmosphere and the influences of physiographic conditions on the development of an agricultural region. A brief study will be made of the common rocks of Cache Valley. Two hours throughout the year. Four credits.

Wed. Fri. 12:10.

2. General Geology. A comprehensive survey of the field covered by dynamic, structional, and historical geology. Particular attention is paid to the changes the earth's surface is now undergoing and the forces which produce them, as a means of interpreting the past. The course includes laboratory study of the common rocks and rock-forming minerals, with special stress on the soil product resulting from rock disintegration. A part of the second term's work is given to a careful study of the geological development of the North American continent. Field trips to points during fall and spring and written reports made on the same. Prerequisites, Chemistry 1, Zoology 2. Three hours throughout the year. Six credits.

Sec. 1, Tu. Th. Sat. 9:20. Sec. 2, Tu. Th. Sat. 8:30.

3. Economic Geology. The first term will be given to the study of the non-metals with special emphasis on mineral fertilizers. The second term will be devoted to the study of metals; their origin and economic uses. The work of either term may be taken without the other. Prerequisite, Geology 2. Three hours throughout the year. Six credits.

Tu. Th. Sat. 10:10.

4. MINERALOGY. A descriptive and determinative study of the more important minerals. The student is furnished with excellent specimens, for both tests and comparisons, of all minerals studied. The course includes a discussion of crystallography and the physical properties of minerals. The work of the course is largely individual laboratory work in blow-pipe analysis and determinative mineralogy. Prerequisite, Chemistry 1. One recitation and two laboratory periods, one term. Three credits.

Lec. Wed. 9:20, Lab. Wed. Fri. 1:50 to 4:20.

5. Geology of Ground Water. A study of structure to determine the cause of springs, artesian wells, etc., with the object of learning what structural characteristics will yield water either through tunneling or boring. Prerequisites, Geology 2, Physics 1. Two hours, one term. Two credits.

Wed. Fri. 10:10.

6. Advanced Physiography. Intended for students of college grade who wish to obtain a more complete knowledge of physiographic features and processes than can be given in Geology 1. A careful study of the physiographic development of the United States is taken up. Lectures will be supplemented by field and laboratory work, and by considerable outside reading. Prerequisites, Geology 1 and 2. Two hours, second term. Four credits.

Wed. Fri. 10:10.

- 7. Petrology. A systematic study of rocks and the rockforming minerals. Particular attention is given to the origin and formation of the different kinds of igneous rocks and methods for the determination of the minerals which compose them. Prerequisites, Geology 2 and 4, Chemistry 1. Lectures, reading and laboratory work. Time and credit to be arranged.
- 8. FIELD GEOLOGY. The methods employed in field work and the mapping of a region from geological field notes are carefully studied. During the year the students will work out the geology of an assigned area. Lectures supplemented by reading. Prerequisite, Geology 2. Two recitations, one afternoon field work or laboratory period throughout the year. Credit according to work. Can also be taken in summer school but classes for less than ten students will not be organized for summer work.

HISTORY.

Assistant Professor Daines. Mr. Robinson.

a. English History. A High School course that aims to give the students a knowledge of a few periods and movements rather than to range over the whole of the history of Great Britain. Three hours, one term. Three credits.

Sec. 1 Tu. Th. Sat. 10:10. Sec. 2, Tu. Th. Sat. 1:10.

b. American Civics. A High School course that gives the students a knowledge of the fundamentals of our national, state, and local governments. Three hours, one term. Three credits.

Sec. 1, Tu. Th. Sat. 1:10. Sec. 2 Tu. Th. Sat. 1:50.

3. English History. A College course covering the history of England to the present time, with but a brief survey of the period before 1485. Special stress is laid on the constitutional and the social development of modern England. Three hours throughout the year. Six credits.

Tu. Th. Sat. 8:30.

4. Modern European History. A College course covering the history of Europe from the beginning of the eighteenth century. In this course current events will receive attention. Three hours throughout the year. Six credits.

Tu. Th. Sat. 12:10.

5. HISTORY OF THE AMERICAN WEST. A College course dealing with the expansion of the American people westward. Special attention is paid to the economic factors at the bottom of this movement, and the effects of this movement on the country, politically and socially. Utah and the surrounding states are given special consideration. Three hours throughout the year. Six credits.

Tu. Th. Sat. 1.

6. Ancient and Medieval History. A College course from ancient times to the seventeenth century, with special emphasis on Greek and Roman History. Three hours throughout the year. Six credits.

Tu. Th. Sat. 9:20.

7. HISTORY OF CIVILIZATION. This course does not aim to cover in any detail the political history of the world; its purpose is rather to give a broad view of those factors in ancient, medieval, and modern civilization that have been of greatest permanent value in our own day. Two hours throughout the year. Four credits.

Wed. Fri. 10:10.

HOME ECONOMICS.

The School of Home Economics has been divided into three departments, viz: Domestic Arts, Foods and Dietetics, and Home Construction and Sanitation. For a description of the various courses in Home Economics, see these three departments respectively.

HOME CONSTRUCTION AND SANITATION.

1. House Construction and Sanitation. This course considers location, construction, heating, lighting and ventilating of the house from the standpoint of sanitation. It includes a study of house plans; house furnishing; and sanitation in its relation to disease prevention. Prerequisite, Bacteriology 1 and Domestic Science 4. Two lectures and one laboratory period, first term. Three credits.

Tu. Th. Sat. 9:20.

2. Home Care of the Sick. A course intended to fit the student for conditions in the home life in which professional nursing is not required. It includes emergencies and first aids to the

injured and simple procedure in home care of the sick. Prerequisite, Physiology 1. Three hours, second term. Three credits.

Tu. Th. Sat. 12:10.

3. HOUSEHOLD ART. This course deals with principles of design and color applied to interior decoration and furnishing; floor coverings, and wall hangings; furniture designs; and the use of pictures. Prerequisite, Art 2 and 4, and Domestic Science 2. Two lectures and one laboratory period, second term. Three credits.

Tu. Th. Sat. 8:30.

4. Household Administration. This course deals briefly with the relation of the home to society; standards of living, cost of living; income and expenditures, savings; service and management. The course includes also a review of the Home Economics movement in its influence on the home and its place in educational institutions. Prerequisite, Domestic Science 3, Economics 2, or Sociology 1. Three hours throughout the year. Six credits.

Tu. Th. Sat. 10:10.

HORTICULTURE.

Professor Batchelor. Mr. Knudson.

1. Pomology. Gives the student a scientific as well as a practical knowledge of commercial fruit growing: selection of orchard site, planting, cultivation, irrigation, harvesting and marketing the crop. Three lectures, first term. Three credits.

Tu. Th. Sat. 8:30.

2b. Practical Pomology. Deals with the theory and the practice of the most elementary phases of horticulture, such as propagation, picking and packing fruit, and elementary work in greenhouse management. Prerequisite, Horticulture 1. One lecture and one laboratory period, first term. Two credits.

Lec. Wed. 10:10, Lab. Tu. 1:50 to 4:20.

2a. Pruning and Propagation. This is a continuation of Horticulture 2, dealing with the theory and practice of pruning and propagation. Prerequisite, Horticulture 1. One lecture and two laboratory periods, second term. Three credits.

Lec. Wed. 10:10, Lab. Mon. 9 to 3.

3. Bush Fruits. A study of the propagation, culture, harvesting, and marketing of small fruits, such as strawberries, currants, raspberries, grapes. Prerequisite, Horticulture 2. Two lectures, second term. Two credits.

Wed. Fri. 8:30.

4. VEGETABLE GARDENING. A study of the cultivation and economic importance of the various vegetable crops; soils, fertilizers, planting, transplanting, and storage of such crops for home and commercial uses. Two lectures and one laboratory period, second term. Three credits.

Lec. Wed. Fri. 9:20, Lab. Wed. 1:50 to 4:20.

7. Systematic Pomology. A systematic and detailed study of the various fruits, giving the student a working knowledge of varieties and an ability to judge fruit exhibits. Prerequisite, Horticulture 1. One lecture and one laboratory period, first term. Two credits.

Lec. Fri. 9:20, Lab. Wed. 1:50 to 4:20.

8. Landscape Gardening. A study of ornamental plants; methods of grouping and planting; laying out public and private grounds. Prerequisite, Horticulture 2. Two lectures, one laboratory period, second term. Three credits.

Lec. Wed. Fri. 12:10, Lab. Fri. 1:50 to 4:20.

9. Horticultural Literature. A criticial study and examination of books, bulletins, reports, magazine articles, etc., dealing with special horticultural subjects. Prerequisite, Horticulture 1. Three recitation periods throughout the year. Six credits.

Tu. Th. Sat. 10:10.

10. HISTORY OF HORTICULTURE AND AGRICULTURE. Beginning with mythical Egypt, 2700 B. C., the history and development of these industries are traced through Greece, Rome, and England; finally a general survey is made of the past and present conditions in the United States. Three lecture periods, second term. Three credits.

Tu. Th. Sat. 8:30.

LIBRARY REFERENCE AND BIBLIOGRAPHY.

MISS SMITH.

The course consists in the main of instruction in the use of scientific and agricultural literature and general reference books, such as encyclopedias, dictionaries, atlases, cyclopedias of special subjects, indexes to periodicals and general literature, hand-books of information, and United States public documents with their special catalogues and indexes. Talks are given on the classification and cataloguing of books, their arrangement on the shelves, the use of the card catalogue, book-buying, and bibliography. "List of reference books in the Utah Agricultural College library" is used as a text book. Two hours, one term. Two credits.

Wed. Fri. 10:10.

MATHEMATICS.

Professor Saxer. Mr. Humpherys.

a. Algebra.* A first year course in High School algebra. Five hours throughout the year. Ten credits.

Sec. 1, daily 1:50. Sec. 2, daily 9:20.

^{*}For students who have not taken algebra in their High School work, but have the necessary entrance credits.

- b. Plane Geometry. Five hours, one term. Five credits.
- Sec. 1, daily 12:10. Sec. 2, daily 1:00.

Sec. 3, daily 10:10.

- 4. Solid Geometry. Three hours, one term. Three credits.
- 5. College Algebra. Three hours, first term. credits.

Tu. Th. Sat. 9:20.

6. Plane Trigonometry. Three hours, one term. Three credits.

Sec. 1, Tu. Th. Sat. 1. Sec. 2, Tu. Th. Sat. 1:50.

7. Analytic Geometry, Calculus. A one-year course including the elements of (a) plane analytic geometry, (b) differential calculus, and (c) integral calculus. Prerequisites, Mathematics 5 and 6. Five hours throughout the year. Ten credits.

Daily 8:30.

8. DIFFERENTIAL EQUATIONS. An elementary course in ordinary differential equations. Special attention will be given to the solution of practical problems. Prerequisite, Mathematics 7. Two hours throughout the year. Four credits.

Tu. Th. Sat. 10:10.

9. Descriptive Geometry. See Mechanical Drawing 9.

Tu. Th. Sat. 1:50 to 4:20.

10. General Astronomy. A non-mathematical course of college grade dealing with those fundamental facts of astronomy with which every educated person should be familiar. Two hours throughout the year. Four credits.

MECHANIC ARTS.

MECHANICAL DRAWING.

Mr. Pulley.

1. ELEMENTARY MECHANICAL DRAWING. Course consists of drawing plane geometrical figures, intended to develop accuracy and correct methods in the use of drawing instruments, and in the making of the common geometrical constructions used in mechanical drawing. One recitation and one laboratory period, one term. Two credits.

Tu. Th. Sat. 8:30 to 10:10.

2. Lettering and Applied Geometry. Practice is given in letter construction, in the spacing of letters, words and sentences, construction of titles, monograms, trade marks, border lines, north points, etc.; and in the construction of scales, the conic sections and in drawing geometrical solids. Prerequisites, Course 1, or a working knowledge of plane geometry. One recitation and one laboratory period, one term. Two credits.

Tu. Th. Sat. 8:30 to 10:10.

3. Orthographic Projection. This course affords practice in the representation of objects on paper in strict accord with practice and the principles underlying orthographic projection. It embraces the regular coordinate projections, auxiliary projections, sectional views and graphical solutions. Prerequisite, Course 2. One recitation and one laboratory period, one term. Two credits.

Tu. Th. Sat. 8:30 to 10:10.

4. ORTHOGRAPHIC PROJECTION (continued). The application of its principles in determining true size and shape of sections, the lines of intersection of planes with solids and solids with solids with reference to its use in the mechanics work. Prerequisite, Course 3. One recitation and one laboratory period, one term. Two credits.

Tu. Th. Sat. 8:30 to 10:10.

5. One Plane Projection. In this course students will have practice in making pictorial representations of solids in isometric and cabinet projections. Prerequisite, Course 3. One laboratory period, one term. One credit.

Tu. Th. Sat. 8:30 to 10:10.

6. Working Drawings. The principles obtained in the foregoing courses will be applied in the making of drawings with

the addition of the dimensions, notes, title, etc., needed by the constructor. The common conventions, blue printing and commercial practice will also receive attention. Course can be varied somewhat to suit the requirements of the class. Prerequisite, Course 4. One recitation and one laboratory period, one term. Two credits.

Tu. Th. Sat. 8:30 to 10:10.

- 7. Architectural Drawing and Perspective. Prerequisite, Course 4. One recitation and one laboratory period, one term. Two credits.
- 8. Machine Drawing. Sketching and drawing of machinery. Prerequisite, Course 4. One recitation and one laboratory period, one term. Two credits.
- 9. ELEMENRARY DESCRIPTIVE GEOMETRY. Problems relating to the point line and plane will be taken up. Prerequisite, Course 2, or a working knowledge of geometry and instruments. One recitation and one laboratory period, one term. Two credits.
- 10. Descriptive Geometry (continued). Deals with sections, developments and intersections of plane and curved surfaces. Prerequisite, Course 9. One recitation and one laboratory period, one term. Two credits.
- N.B. The necessary materials and instruments for Mechanical Drawing 9 and 10 can be purchased at the College Bookstore for from fifteen to twenty-five dollars.

WOOD WORK.

MR. HANSEN.

a. Fundamental Principles. A complete course illustrated by the construction of elementary exercises. Includes work

in Shop Mathematics and Technology. Three periods daily, one term. Five credits.

8:30 to 11.

b. Application of Fundamentals. Application of the foregoing practice, in panels, sash, doors, and simple cabinet work. Also a thorough knowledge of sharpening tools. Prerequisite, Course a. Three periods daily, one term. Five credits.

8:30 to 11.

1. The Work Bench. Constructing a standard work bench. Prerequisite, Course b. Three periods daily, one term. Five credits.

1:50 to 4:20.

2. Turning. Wood turning, and making a tool cabinet. Prerequisite, Course 1. 'Three periods daily, one term. Five credits.

1:50 to 4:20.

3. HARD PINE. Cabinet work in fir. Prerequisite, Course 2. Three periods daily, one term. Five credits.

1:50 to 4:20.

4. House Building or Hardwood Work. Work in hardwood staining and wax finishing; or elementary house building. Prerequisite, Course 3. Three periods daily, one term. Five credits.

1:50 to 4:20.

5. Veneering. Veneered cabinet work. The articles are designed by the students. Prerequisite, Course 4. Three periods daily, one term. Five credits.

1:50 to 4:20.

6. House Finishing or Fancy Woodwork. Inside finishing of a house or inlaying and hand polishing. Prerequisite, Course 5. Three periods daily, one term. Five credits.

1:50 to 4:20.

7. PATTERN MAKING. Elementary exercises. Prerequisite,

- Course 2. Three laboratory periods a week, one term. Three credits.
- 8. Carving. Elementary wood carving. Prerequisite, Course b. Two laboratory periods a week, one term. Two credits.

FORGING AND GENERAL BLACKSMITHING.

Mr. Newey.

a. Exercises arranged to teach the underlying principles of forging including welding. Two hours each week will be given to the consideration of Shop Mathematics and Technology. Three periods daily, one term. Five credits.

8:30 to 11.

b. Exercises arranged to give practice in the use of anvil tools, making of tools, hardening and tempering, filing, drilling, brazing. Two hours each week will be given to the consideration of Shop Mathematics and Technology. Prerequisite, Course a. Three periods daily, one term. Five credits.

8:30 to 11.

- c. Exercises from Course a. This is a short course arranged for students who cannot spend each day in the shop. Six hours a week, one term. Two credits.
- 1. Exercises arranged to give further practice in the principes taught in Courses a and b; or horseshoeing. Prerequisites, Courses a and b. Three periods daily, one term. Five credits.

1:50 to 4:20.

2. Woodwork preparatory to carriage work, or horseshoeing. Three periods daily, one term. Five credits.

1:50 to 4:20.

3. General repair work including axle and tire setting, re-

setting of springs and plow work; or horseshoeing. Prerequisites, Courses a, b, 1, 2. Three periods daily, one term. Five credits. 1:50 to 4:20.

4. Same work as Course 3. Three periods daily, one term. Five credits.

1:50 to 4:20.

- 5. The building of an approved vehicle or farm implement; or horseshoeing. Three periods daily, one term. Five credits.

 1:50 to 4:20.
- 6. Same work as Course 5. Three periods daily, one term. Five credits.

1:50 to 4:20.

MACHINE WORK.

Mr. Pulley.

All courses come daily 1:50 to 4:20.

- a. Bench Work. The technical and practical phases of the subject are treated in this course. Information pertaining to materials, tools and methods is offered. The practical work consists of exercises involving the use of the hammer, chisels, files, polishing materials and wheels, drills and speed lathe. Includes work in Shop Mathematics and Technology. One recitation and four laboratory preiods, one term. Five credits.
- b. Bench, Planer and Shaper Work. Consisting of preliminary exercises in scraping, babbitting, soldering, tapping, sheet metal work, planing and shaping, hand turning, and drilling. Calculations will be made of the mechanism of the machines. Prerequisite, Course a. One recitation and four laboratory periods, one term. Five credits.
- 1. Planing and Turning. Advanced planer and shaper work and preliminary exercises in straight and taper turning on

the engine lathe. The student will be expected to make computations of feeds, speeds and time required in turning out work. Prerequisite, Course b. One recitation and four laboratory periods, one term. Five credits.

- 2. Advanced Lathe Work. Chucking and boring in the lathe, polishing and thread cutting. Discussions on the change gears and systems used in thread cutting and other technical features, will be given and calculations made. Prerequisite, Course 1. One recitation and four laboratory periods, one term. Five credits.
- 3. Turning and Milling. Lathe work continued and milling machine work, involving simple and gang milling, and the use of the indexing head. Prerequisite, Course 2. One recitation and four laboratory periods, one term. Five credits.
- 4. Tool Making. The making of small tools, such as tap and reamer wrenches, taps and dies, reamers, mandrels, milling cutters, with practice on the grinding machine, will constitute the practical work of this course. The desirable technical information connected herewith will be considered in class. Prerequisite, Course 3. A knowledge of hardening and tempering steel is desirable. One recitation and four laboratory periods, one term. Five credits.
- 5. Tool Making (continued). In this course attention will be paid to the making and using of jigs and fixtures in relation to manufacturing machinery and to punch and die making. Prerequisite, Course 3. One recitation and four laboratory periods, one term. Five credits.
- 6. MACHINE CONSTRUCTION. In this course, the making of machinery is taken up. Some machines used in the shop have been put into working condition, after damage by fire, and others

built outright by students. Prerequisite, Course 3. Recitations as needed, and laboratory periods, one term. Five credits.

- 7. ELEMENTARY MACHINE DESIGN. Fastenings, rivets, screws and bolts, pipe fittings, keys and cutters. Prerequisite, should know strength of common materials and have knowledge of mechanical drawing. One recitation and one laboratory period, one term. Two credits.
- 8. Machine Design (continued). Not offered in 1913-1914.
 - 9. Foundry Work. Not offered in 1913-1914.

MILITARY SCIENCE AND TACTICS.

FIRST LIEUTENANT R. J. BINFORD, U. S. ARMY.

Military instruction at the College is not a matter of choice with the authorities or the students. The Congress of the United States requires this instruction in return for large appropriations. The object of the instruction is to qualify students for commissions in the National Guard or volunteer army. All able-bodied male students of the College are enrolled in the Military Department, during three years of their course. The satisfactory completion of both the practical and the theoretical work prescribed for any one year entitles the student to two credits.

Military drill improves the habits and manners of the student develops him physically, and gives him that military knowledge which every citizen should possess that he may render intelligent aid to his country or state in time of need. It cultivates a manly spirit, ready and implicit obedience, respect for authority and restraint—all qualities of inestimable value to a young man in whatever calling he may choose.

The military body of this College consists of one battalion of three companies and a band of 28 instruments. The organization, drill and administration are the same as in the Regular Army. The appointment and promotion of officers and non-commissioned officers in the Battalion is made by the Commandant of Cadets upon approval by the President of the College, after a careful consideration of the following points: knowledge of drill and other duties as determined by examination and practical application of this knowledge on the drill field; zeal, soldierly bearing and aptitude for command; character, military record; general standing in the college.

Paragraph 20, General Orders No. 155, War Department, July 24, 1907, directs that, "Upon occasions of Military ceremony in the execution of drills, guard duty, and where students are receiving any other practical military instruction, they shall appear in the uniform prescribed by the institution." The College has adopted a very neat and serviceable uniform which may be purchased through the College Secretary at actual cost, about sixteen dollars. Students, when they register, must be prepared to deposit five dollars towards the purchase of their uniform.

There will be five fifty minute periods of instruction each week throughout the year. This is required of all cadets excepting Band members during three years of their attendance. The military instruction of the Band will average one period per week.

PRACTICAL INSTRUCTION.

(An average of four periods per week.)

The instruction consists of Infantry Drill—school of the soldier, squad, company and battalion in close and extended order; ceremonies of guard mounting, parade, review and escort of the Color Field. Service Regulations—marches, outposts, advance guard, rear guard and combat exercises. Small arms, Firing Manual.—Position sighting and aiming drills; indoor and outdoor target practice.

Tu. Wed. Th. Sat. 11:20.

THEORETICAL INSTRUCTION.

(An average of one period per week.)

Recitations in Infantry Drill Regulations, Small Arms Firing Regulations, Field Service Regulations, Guard Duty and Administration; lectures on military subjects.

Sec. 1 Wed. 1. Sec. 2 Tu. 1.

Sec. 3 Th. 1. Sec. 4 Sat. 1.

BATTALION ROSTER, 1912-1913.

FIELD AND STAFF OFFICERS.

HAROLD R. HAGAN, Major.

W. F. BARBER, 1st Lieut. and Adjutant.

W. M. Mathison, 2nd. Lieut. and Quartermaster.

NON-COMMISSIONED STAFF OFFICERS.

MARK S. JOHNSON, Sergeant Major.

I. L. McAlister, Color Sergeant.

S. L. BARBER, Quartermaster Sergeant.

Frank Hickenlooper, Trumpeter Sergeant.

BAND.

A. L. Christiansen, Chief Musician.

Bernice Howells, Principal Musician.

(Vacancy,) Drum Major, (J. Odell, Acting.)

G. W. Hess, Sergeant.

C. P. McGregor, Sergeant.

Edwin Smith, Sergeant.

J. E. Haslam, Sergeant.

E. Johnson, Corporal.

A. Nelson, Corporal.

Joseph Oyler, Corporal. Grover Burnett, Corporal. Leo Hansen, Corporal. Wm. Doutre. Corporal.

COMPANY A.

Captain, W. S. McAlister.

1st Lieut. Clayton Preston.

2nd. Lieut. Anthon Peterson.

1st. Sergeant, J. M. Sampson.

Sergeant, Byron Birch.

Sergeant, Charles Osmond.

Corporal, LeRoy Carroll.

Corporal, S. K. Daniels.

Corporal, Gustaf Heldberg.

Corporal, W. W. Thomas.

Corporal, (Vacancy.).

COMPANY B.

Captain, Lynn Andrus.

1st. Lieut. Arnold Frew.
2nd. Lieut. Grandison Gardner.
1st. Sergeant, H. A. Belnap.
Sergeant, W. A. Hendricks.
Sergeant, L. G. Nuttall.
Sergeant, S. W. Riter.
Corporal, Le Roy Monson.
Corporal, Andrew Mohr.
Corporal, Le Roy Tanner.
Corporal, Victor Hendricks.
Corporal, Hugh Hurst.

COMPANY C.

Captain, (Vacancy.)

1st. Lieut. Stephen C. Perry.

2nd. Lieut. J. Z. Richardson.

1st. Sergeant, Floyd Hammond.

Sergeant, Edlef Edlefson.

Sergeant, J. E. Hatch.

Sergeant, (Vacancy.)

Corporal, Silver Lowe.

Corporal, Noah Woodland.

Corporal, C. E. Cotter.

Corporal, Reuben Hansen.

MODERN LANGUAGES AND LATIN.

Professor Arnold.

FRENCH.

1. FIRST YEAR FRENCH. Fraser & Squair's French Grammar and Guerber's Contes et Legends form the basis of the grammatical and conversational work. Four hours throughout the year. Eight credits.

Tu. Wed. Th. Fri. 10:10.

2. Second Year French. Francois French Composition is the basis of a grammatical review of writing in French. Lavisse's Histoire de France is used as subject matter for conversation, and the work in reading consists in translating works of the more important nineteenth century authors. Prerequisite, French 1. Three hours throughout the year. Six credits.

Tu. Th. Sat. 9:20.

3. Third Year French. Four elective one-hour courses. a—Conversation b—Rapid reading of French periodicals on horticulture, stockbreeding or domestic science subjects. c—Rapid reading of French classics, varying each year. d—French periodicals on French home life. Course 3b may be given in two divisions to suit those who elect it. Students may elect any part or all of French 3. Each division counts two credits.

(Hours to be arranged with instructor.)

GERMAN.

1. First Year German. Grammar, conversation and reading of easy texts. Four hours throughout the year. Eight credits.

Tu. Wed. Th. Fri. 8:30.

2. Second Year German. Bernhardt's German Composition is finished and work in original German composition is begun. Many texts are rapidly read, selected from nineteenth century authors, together with one scientific text. Three hours throughout the year. Six credits.

Tu. Th. Sat. 12:10.

3. THIRD YEAR GERMAN. Three elective one hour courses. a—Conversation, including the learning of a part ine a one-act play. b—Scientific German, with private reading in different subjects according to the course of each student. c—A study of Goethe's Faust. Students may elect any part or all of German 3. Each division counts two credits.

(Hours to be arranged with instructor.)

DANO-NORWEGIAN.

1. Simple grammatical exercises and conversation, the object being to gain a reading knowledge of the language. Four hours throughout the year. Eight credits.

Not offered in 1913-1914.

SPANISH.

1. First Year Spanish. Giese, First Year in Spanish, Matazke, First Spanish Readings; Valdes, Jose; Alarcon, El Capitan Veneno. Three hours throughout the year. Six credits.

Tu. Th. Sat. 1:50.

2. Second Year Spanish. Ford, Spanish Composition; Picatoste, Historia de Espana as basis for conversation; rapid reading of modern texts. Three hours throughout the year. Six credits.

LATIN.

- 1. First Year Latin. Collar and Daniel, First Year Latin; Viri Romae; Drill on essentials of Latin grammar; composition with English grammar, acquiring of vocabulary; English words derived from Latin; selections for reading. Four hours throughout the year. Eight credits.
- 2. Second Year Latin. D'Ooge, Latin Composition based on Caesar; Bennett, Latin Grammar; selected readings from Part 1, Greenough, D'Ooge and Daniel, Second Year Latin; an equivalent of four books of selections from Caesar; oral and written composition. Attention is given to etymology of English derivatives and cognates. Three hours throughout the year. Six credits.

ETYMOLOGY I.

Analytic study of the scientific vocabulary. Prerequisite, one year of French or German. Two hours, first term. Two credits. (Hour to be arranged with instructor.)

MUSIC.

Professor Thatcher. Mrs. Linnartz, Mr. Spicker.

The following courses in music are arranged with the twofold idea of laying a sure foundation for professional work in this art, and of fitting the student for the proper appreciation and fullest enjoyment of classic compositions of famous composers. Theory of music as exemplified in the study of harmony, counterpoint and musical form, will be considered and, as far as possible, urged upon the student in both vocal and instrumental departments. Ensemble work may be had in the quartette, choir, band and orchestra organizations. These advantages, together with those furnished by free concerts and recitals, constitute the strongest features of a Conservatory Course and will be open to all students of the College.

FOUR YEAR VOCAL COURSE. Completion of four years' regular prescribed work, together with two years of piano and one year of harmony.

FOUR YEAR PIANO COURSE. Completion of regular four years' work as prescribed, together with one year of vocal music and one year of harmony.

FOUR YEAR VIOLIN OR VIOLONCELLO COURSE. Completion of four years' regular prescribed work, together with two years of piano and one year of harmony.

FOUR YEAR COMPOSITION COURSE. Regular prescribed work, together with three years on piano, violin, cello, or cornet.

VOICE CULTURE AND ART OF SINGING.

FIRST YEAR. Breathing, study of vowel forms, elementary vocalization, easy songs.

Second Year. Vocalization, solfeggio, songs.

THIRD YEAR. Vocal studies, songs, arias, solo parts in easy operas, first year harmony, piano.

FOURTH YEAR. Advanced studies, English classic songs, German and Italian songs, arias, second year piano.

PIANOFORTE.

FIRST YEAR. Position, hand culture, rhythm, scales, elementary work from Gurlitt, Beyer, Czerny and others.

SECOND YEAR. Easy studies and sonatinas by Bertini, Clementi, Kuhlau, Kohler, Loeschorn.

THIRD YEAR. Studies by Czerny, Dorn, Hiller, Gobbaert and Craemer, Sonatas by Mozart, Haydn and others; first year voice and singing.

FOURTH YEAR. Studies by Craemer, Kessler, Clementi, Gradus ad Parnassaum, solo pieces by Schubert, Mendelssohn, Chopin, Raff and others; first year harmony.

ORGAN.

FIRST YEAR. A standard method, and easy studies and selections.

SECOND YEAR. Parallels piano course; carefully chosen selections suitable for the organ.

VIOLIN.

FIRST YEAR. David, School, Book I. Sitt Opus 35.

SECOND YEAR. David, School, Book II. Studies by Kayser; easy solos and duets; orchestra practice; first year piano.

THIRD YEAR. Kreutzer, 42 exercises; studies by Fiorilli; orchestra; second year piano.

FOURTH YEAR. Rode, 24 exercises; Rovelli, 12 exercises; Garinni, 24 exercises; Dont, Gradus; concertos, Viotti, Mendelssohn, etc.; orchestra, first year harmony.

VIOLONCELLO.

FIRST YEAR. Part of Kummer's method for Violoncello with easy selections.

SECOND YEAR. Balance of Kummer's method; easy studies by Dotzauer; orchestra practice, first year piano.

THIRD YEAR. Studies by Dotzauer; pieces moderately difficult; cello parts to easy trios and quartettes; orchestra; second year piano.

FOURTH YEAR. Balance of studies by Dotzauer; pieces of more advanced grades; cello parts to trios, quartettes, etc.; orchestra; harmony.

CORNET AND OTHER BRASS INSTRUMENTS.

The course of study for these various instruments corresponds in general with that for string instruments.

MANDOLIN AND GUITAR.

FIRST Two TERMS. First, second and third position; part of a standard method, and easy selections.

LAST Two TERMS. Balance of method; more advanced work and ensemble playing.

HARMONY AND COMPOSITION.

FIRST YEAR. Goetschius Tone Relations; first year of piano and other instruments.

SECOND YEAR. Advanced harmony; simple counterpoint; melody writing; second year piano, violin, etc.

THIRD YEAR. Counterpoint; smaller forms; vocal and instrumental; third year piano, violin, etc.

FOURTH YEAR. Large forms; instrumentation.

GENERAL COURSES.

The following work is open to students, without charge.

Choir and Choral Society, five hours a week. Two credits. Daily 11:20.

Band and Orchestra, fours hours a week. One credit. Wed. Fri. 4 to 6.

TUITION.

Term of fifteen weeks, payable in advance. Special students in music pay no entrance fee.

Voice. Private Instruction.

Fifteen Lessons: Beginners, \$15.00; advanced, \$22.50.

PIANO. Private Instruction.

Fifteen Lessons: First year, \$15.00; second year, \$22.50.

REED ORGAN. Private Instruction.

Fifteen Lessons: Beginners, \$15.00; advanced, \$22.50.

VIOLIN. Private Instruction.

Fifteen Lessons: Beginners, \$15.00; advanced, \$22.50.

VIOLONCELLO. Private Instruction.

Fifteen Lessons: \$15.00.

CLARINET, CORNET AND BAND INSTRUMENTS.

Mandolin and Guitar.

HARMONY.

PHYSICAL EDUCATION.

Professor Teetzel.
Miss Johnson.

It is the aim of the Department of Physical Education to foster hygienic habits among the students and so direct their exercise that they may have a physical development fit to support and make efficient the mental development which they seek in attending the Institution. This is accomplished, first, by giving them the needed opportunity for gymnastic exercises; secondly, by encouraging athletic games, thereby stimulating an interest in their physical efficiency and in the pleasure of physical activity; thirdly, by giving them a guiding knowledge of the principles of physical education. Each student is entitled to a careful physical examination, upon which, as far as possible, his work will be based. Students will be required to wear regulation gymnasium suits and shoes.

PHYSICAL EDUCATION FOR MEN.

- 1. FOOTBALL.
- 2. Swimming. (a) Beginners. (b) Advanced students.
- 3. Basketball. (a) College team. (b) Class teams.
- 4. Wrestling.
- 5. Baseball.
- 6. Track Work.
- 7. First Aid to the Injured. Two hours, first term.

PHYSICAL EDUCATION FOR WOMEN.

a.—Tu. Th. Sat. 11:20. b.—Tu. Th. Sat. 11:20. 1—Tu. Th. Sat. 1. 2—Tu. Th. Sat. 12:10. 3—Daily 3:30 to 5:10.

PHYSICS.

Professor F. L. West.

1a. General Physics. A first course in the elements of Physics presented mainly from the experimental standpoint. It

includes a study of mechanics, heat, electricity and magnetism, sound and light. The lectures are fully illustrated by appropriate experiments and lantern slides. Prerequisite, one unit of mathematics. Two recitations and two laboratory periods throughout the year. Eight credits.

Lec. Wed. Fri. 8:30, Lab. Tu. Th. 1:50 to 4:20.

1b. General Physics. A descriptive, non-mathematical course in Physics, primarily for Home Economics and Commercial students, emphasizing the applications of physics in modern life. Three recitations and one laboratory period throughout the year. Eight credits.

Lec. Tu. Th. Sat. 8:30, Lab. Fri. 1:50 to 4:20.

2. AGRICULTURAL PHYSICS. A survey of the whole field of Physics in order to lay a thorough foundation for the subsequent study of this and related subjects, with special emphasis on those principles most useful to the student of Agriculture and Agricultural Engineering and their application in these sciences. Prerequisites, High School Physics and two units of Mathematics. Two recitations and two laboratory periods throughout the year. Eight credits.

Lec. Wed. Fri. 9:20, Lab. Wed. Sat. 1:50 to 4:20.

3. Analytical and Applied Mechanics, Molecular Physics, Thermodynamics and Heat. Prerequisite, Physics 2 (Mathematics 7 or Physics 6 desirable). Three recitations throughout the year. Six credits.

Not given in 1913-1914.

4. ELECTRICITY, LIGHT AND SOUND. Alternates with Physics 3. Three recitations throughout the eyar. Six credits.

Tu. Th. Sat. 10:10.

5. Chemical Physics. Lectures on some of the fundamental laws and theories of Chemistry and Physics, including the atomic theory, kinetic theory of gases, gaseous, liquid and solid states, solutions, thermo-chemistry, electro-chemistry, chemical statics and dynamics, radio-activity and electron theory. Pre-

requisite, elementary Chemistry and Physics. Two lectures and one laboratory period throughout the year. Six credits.

Lec. Wed. Fri. 10:10, Lab. 1:50 to 4:20.

6. ELEMENTARY MATHEMATICAL PHYSICS. A review of elementary mathematics and its application in Physics and Chemistry. Two hours, second term (Calculus may be taken at the same time).

Tu. Th. 12:10.

- 7. Advanced Laboratory Work. Prerequisite, Physics 2 Time and credit to be arranged.
- 8. Physics of the Atmosphere or Meteorology. A general discussion of the atmosphere, its composition and movements the nature of storms, winds, frosts, dew, cloud, fog, etc. Special study of the methods of weather observations, predictions, and frost warnings. Prerequisite, Elementary Physics. Two lectures first term. Two credits.

Tu. Th. 12:10.

PHYSIOLOGY AND PHYSIOLOGICAL CHEMISTRY.

1. Advanced Physiology. A discussion of movement, sensation, circulation, respiration, digestion, absorption, metabolism and excretion. Questions of hygiene and sanitation are also considered. Three hours, first term. Three credits.

Tu. Th. Sat. 9:20.

2. DIGESTION, ABSORPTION AND METABOLISM. An advanced course in special phases of physiology, dealing mainly with digestion and related subjects. Three lectures, second term. Three credits.

Tu. Th. Sat. 9:20.

3. Physiological Chemistry. This course will deal with the chemical interpretation of the transformations going on in the plant and animal organism. Three lectures, second term. Three credits.

Tu. Th. Sat. 10:10.

4. Physiological Chemistry. A laboratory course which may accompany the preceding course. Six hours laboratory work per week, second term. Two credits.

POLITICAL SCIENCE.

Professor Thomas.
Assistant Professor Hendricks.

- 1. GOVERNMENT. Our European ancestors, origin of states and state institutions, English and American governments compared, state and foreign service, the treasury, money and coinage banks, the post office, and executive departments, legislation, the constitution, federal and state powers, political parties, party issues. Three hours throughout the year. Six credits.
- 2. (a) Constitutional Law. The constitution; the rise of the American Union; distribution and powers of the government; powers of Congress; powers of the Executive; the judicial departments; checks and balances of governments; government of the territory; the admission of new states; amendments to the constitution; civil rights and their guarantees.
- (b) International Law. Persons concerned, rights and duties of state, territorial jurisdiction, jurisdiction on high seas agents of the state, nationality, treaties settlement of disputes, war and its effects, military occupation, hostilities, neutrality, contraband blockade.

Three hours throughout the year. Six credits.

- 3. Comparative Constitutional Government. A comparative study of the various systems of government,—Greece, Rome, Great Britain, Germany, France, Switzerland, United States. Three hours, second term. Three credits.
 - 4. Contracts. Assent and the necessity of its communica-

tions; offers and their expiration or revocation; consideration; contracts under seal; joint and several contracts; conditional contracts; duress; discharge of contracts by rescission; novation, accord and satisfaction; release. Three hours throughout the year. Six credits.

5. BILLS AND NOTES. Formal requisites; acceptance; indorsement; transfer; overdue paper; extinguishment; obligations of parties; checks; Negotiable Instruments Law. Three hours, first term. Three credits.

Tu. Th. Sat. 1:50.

- 6. AGENCY. The creation and termination of the relation; nature and execution of the authority; rights and liabilities under the relation; particular classes of agents. Three hours, second term. Three credits.
- 7. Corporation Law. Private corporations; creation of corporations; implied and granted powers of corporations; powers and liabilities of directors, stockholders, etc. Municipal corporations; legislative control; rights and remedies of creditors; liabilities; power to contract on credit, borrow money and issue negotiable instruments. Three hours, first term. Three credits.

Tu. Th. Sat. 1:50.

- 8. Partnerships. Nature of a partnership, its purposes, and members, creation of partnerships; nature of partners' interest; firm name and good-will; mutual rights and duties of partners; liability of partners; dissolution; debts; distribution of assets; limited partnership. Three hours, second term. Three credits.
- 9. (a) SALES. Subject-matter of sale; executory and executed sales; bills of lading; fraud, warranty; Statute of Frauds.
- (b) Mortgages. Form of mortgage—legal and equitable; the substance of the mortgage; elements of the mortgage; situation of the mortgagee and mortgagor.

Three hours, first term. Three credits.

- 11a. Municipal Government. This course is a study of municipal government both in Europe and in the United States, with a discussion of the problems of the large city and the small city, municipal ownership, municipal finance, proposed systems of reform, such as the Commission Plan, and other questions of this sort. Each student is required to study in detail the government of some one American city. Three hours, first term. Three credits.
- 11b. COLONIAL GOVERNMENT. This course takes up the history of colonial enterprise from ancient times to the present, but most stress is laid on modern colonial history. The methods of colonial administration used by the various European nations and by the United States are discussed. Three hours, one term. Three credits.
- 12. IRRIGATION LAW OR THE LAW OF WATERS. This course will treat of the right of appropriation, natural and artificial water courses, limitation of use, protection of rights, disposal of rights, percolating water, distribution of water, etc. Three hours, one term. Three credits.

SOCIOLOGY.

Professor Thomas.
Assistant Professor Hendricks.

1. Elements of Sociology. A general course in the foundations and principles of sociology, including a careful study of the social organs, social structure, and social activities. Three hours throughout the year. Six credits.

Tu. Th. Sat. 1.

2. Present Day Social Problems, with Special Reference to Rural Conditions. This course aims to apply the general principles of sociological science to the problems of modern

agricultural and rural communities. Three hours, second term. Three credits.

Tu. Th. Sat. 12:10.

STENOGTAPHY AND TYPEWRITING.

Mr. Canute Peterson.

STENOGRAPHY.

a. Stenography. A beginning course in Stenography, designed to fit the student for actual work in the office, or to prepare him for more advanced reporting work. Graham's Phonography, one of the many excellent Pitmanic systems, is used. Five hours throughout the year. Ten credits.

Daily 9:20.

b. Stenography. A continuation of Course a. This involves a thorough review of the texts, a study of advanced correspondence, reporting legal matter, speeches, etc. Much transcribing on the typewriter is required. Five hours throughout the year. Ten credits.

Daily 10:10.

1. Stenography. A course for students of College grade. The course is designed to prepare the student for office work or to teach Stenography. Five hours throughout the year. Ten credits.

Daily 12:10.

TYPEWRITING.

a. Typewriting. A beginning course in Typewriting. After the simpler exercises, the student learns correct fingering and the proper manipulation of the machine. Special attention is given to the care and mechanism of the typewriter. Five hours throughout the year. Two credits.

Daily, any hour.

b. Typewriting. A special course for those taking Stenography, including a study of correct forms of correspondence, legal forms, etc. As soon as moderate speed is acquired, the work includes the transcription of shorthand notes. Five hours throughout the year. Two credits.

Daily, any hour.

1. Typewriting. A course for students of College grade, supplementing Stenography 1. Five hours throughout the year. Two credits.

Daily, any hour.

VETERINARY SCIENCE.

PROFESSOR FREDERICK.

1. Veterinary Elements. This course considers briefly elementary anatomy and physiology and the common ailments of domestic animals; the most prevalent contagious diseases, their causes, symptoms, course, diagnosis and treatment; measures for their prevention and cure. The course is taught by lectures and text books, and illustrated by observation and practice in the free clinics held each week. The aim is to teach the student how to care for and treat the animals on the farm. Three hours, one term. Three credits.

Tu. Th. Sat. 10:10.

- 2. Comparative Anatomy. This course is prepared for students in agriculture, especially in Animal Husbandry. It consists of lectures, illustrated by skeletons and prepared specimens and models. Each student is required to perform practical work in dissection. Two lectures and one laboratory period, throughout the year. Six credits.
- 3. Obstetrics. This course includes a review of obstetrical anatomy, reproduction, hygiene of pregnant animals, obstetric operations, accidents of parturition, and diseases of the young

animals. The college herd and the surrounding stock breeding community give opportunity for pratical work. Three hours, one term. Three credits.

5. CLINICS. Free clinics will be held at the hospital, and all students taking any of the courses in Veterinary Science are required to attend and assist in the work. This work consists of free examination and treatment of the numerous cases brought in, representing all diseases common to this section of country and furnishing the clinic with abundant material for observation and actual application of the work of the class room. Hours and credits to be arranged.

ZOOLOGY.

Professor Titus.

a. An elementary course in general Zoology, in which the student obtains a general knowledge of the relation of various groups of animals to one another. In the laboratory especial emphasis is laid on gross structure and the relation of the organs in the different groups. Two recitations and one laboratory period throughout the year. Six credits.

Sec. 1 Lec. Wed. Fri. 8:30, Lab. Tu. 1:50 to 4:20. Sec. 2 Lec. Wed. Fri. 10:10, Lab. Wed. 1:50 to 4:20. Sec. 3 Lec. Tu. Th. 9:20, Lab. Th. 1:50 to 4:20.

3. Principles of Breeding. Lectures and required readings on the biological principles underlying life and the inheritance of characters. Three lectures, one term. Three credits.

Tu. Th. Sat. 8:30.

4. EUGENICS. Lectures and required readings on the principles of heredity as applied to the human race. Special attention is given to the heredity of physical, mental, and moral characters, and their effect on the race. Prerequisite, Zoology 3. Three lectures, one term. Three credits.

Tu. Th. Sat. 8:30.

- 5. HISTOLOGY. Lectures and laboratory work on the development of the elementary tissues and their microscopic structure. Methods of preparing, staining and mounting tissues. One lecture, two laboratory periods throughout the year. Six credits.

 Alternates with Zoology 6.
- 6. Embryology. General principles of development beginning with the cell and following through the formation of the various membranes. In the second term will be taken up the development of the central nervous system and the related sense organs. One recitation and two laboratory periods throughout the year. Six credits.

Alternates with Zoology 5.

Fri. 9:20, Th. 1, F. 1:50 to 4:20.

7. ADVANCED ZOOLOGY. This course deals with the classification and structure of the common Intermountain forms, especially those of the vertebrate group. Two lectures and one laboratory period, one term. Three credits.

Alternates with Zoology 8.

Lec. Wed. Fri. 12:10, Lab. Th. 1:50 to 4:20.

8. Economic Zoology. Lectures on the food habits of our common birds and injurious mammals; their relation to agricultural interests and the methods of control. Three hours, one term. Three credits.

Alternates with Zoology 7.

9. Animal Parasites. Lectures and laboratory work on the principal external and internal parasites of man and the various animals. Two recitations and one laboratory period, one term. Three credits.

Lec. Wed. Fri. 12:10, Lab. Th. 1:50 to 4:20.

Alumni Association.

In April, 1899, President J. M. Tanner suggested to Miss Anna Beers, '98 and Charles A. Jensen, '97 the desirability of organizing all the degree graduates of the College into an Alumni association. This was the initial step in the direction of the present firmly established organization. Miss Beers and Mr. Jensen prepared, and sent to each of the 34 graduates, a circular letter urging attendance at Commencement, 1899, in order to form a society. They met with a very hearty response. Meetings were held June 13 and 14, 1899; a constitution and by-laws were discussed and adopted; and the following officers were elected: President, Lewis A. Merrill, '95; secretary, Anna Beers, '98; treasurer, Arthur Stover, '99. The following alumni have served as presidents of the association:

1899-1900, L. A. Merrill, '95. 1900-01, J. T. Caine, Jr., '94. 1901-02, W. H. Homer, Jr., '00. 1907-08, J. C. Hogenson, '99. 1902-03, Rose Homer, '00. 1903-04, William Peterson, '99. 1911-12, C. W. Porter, '05. 1904-05, J. W. Jensen, '00.

1905-06, Robert Stewart, '02. 1906-07, C. W. Porter, '05. 1908-11, Christian Larsen, '96. 1912-13, W. D. Beers, '99. 1913-14, Wm. Peterson, '99.

The U. A. C. Alumni Association includes all graduates who hold degrees from any of the courses in the College. It now numbers 384 living members. William Bernard Dougall, '94, Mrs. Anna Sponberg McCarty, '97; Prof. Christian Larsen, '96; Mrs. Hermoine Hart Roberts, '97; John Simon Baker, '99, and Stanley Crawford, '00, have died. With three exceptions, all of the 384 graduates have received the degree of Bachelor of Science (B. S.), the particular course being specified in the diploma. In the first two classes, the degree of Bachelor of Civil Engineering (B. C. E.) was given, and W. B. Dougall, '94, A. B. Larsen, '94, and W. F. Culmer, '95, were graduated with this degree.

Twentieth Annual Commencement.

June, 1913.

GRADUATES WITH DEGREES.

Bachelor of Science in Agriculture.

Agronomy.

Bennion, Theron Wilson. Salt Lake City Foster, Joseph Downing Layton Glenn, Walter John. Logan Gonzalez, Manrique Rodriguez. Juarez, Mexico Haddock, Lon J. Salt Lake City Hunsaker, LeGrande Honeyville Martineau, Bryant Sherman Logan Macfarlane, Menzies Salt Lake City Maughan, Howard John Logan Ogden, Junius Francis Richfield Rich, Abel Sargent. Brigham City Richardson, Lester Amon Ogden Skinner Joseph Frederick Safford, Ariz.
Rich, Abel SargentBrigham City
Richardson, Lester Amon
Stewart, George
Stucki, Herman WilfordSt. George
Wangsgard, Louis BenjaminLogan
Welch, Joseph PrestonParadise

Agricultural Chemistry.

Carter, Ezra Grover	Preston, Ida.
Dixon, Asael Harold	Preston, Ida.
Rees, Charles William	

Animal Husbandry.

Bennion, HeberSalt Lake City
Cannon, Clawson Young
Hansen, Henry LloydAmerican Fork
Jenson, Norman Brigham City
Kirby, Gordon IvinsSalt Lake City
Peterson, Norman VernRichfield
Price, Sterling ElliottProvo
Reed, Harry SlaterOgden
Sharp, David, JrLogan
White, John EdwardAmerican Fork

Botany and Forestry. Bird, Vernon AmasaSpringville	
. Entomology.	
Barrett, Edward Lewis. Logan Kewley, Robert James. Logan	
Horticulture.	
Holmgren, Edwin JohnBear River CityKnudson, William WarrenBrighamOlsen, Joseph WilliamCrescentPeterson, John HenrySmithfieldStucki, AlfredSt. George	
Home Economics.	
Adams, Katherine PearlLayton	
Burnham, Ivie MayVernal	
Burton, Josephine Afton, Wyo. Carlson, MarieOgden	
Davenport, EthelManti Hunsaker, Veda Laura	
Johnson, Myrtle IvyLogan	
Jensen, Olive EudoraBrigham City	
Knudson, Ivy EustaneBrigham City	
Lee, Mary Lucile	
Mathisen, Anna MarieLogan	
Madsen, Vera Mae	
Nelson, Etta Logan Ure, Lenore Salt Lake City	
Weiler, VeraSalt Lake City	
Commerce.	
Greene, Mark HindleyAmerican Fork	
Groebli, Katharine ElizabethLogan Haslam, James EdwardWellsville	
Luscher, John	
McMullen, Robert WallaceLeeds	
Sharp, Adalena PattiLogan Tunks, Samuel VanOneida, Ida.	
Agricultural Engineering.	
West, Charles HenryOgden	
General Science.	
Bastow, Mary Lovina. Logan Burk, Asahel Woodruff. Logan Brown, Mark Clegg. Sait Lake City	

Clarke, William LarsonProvo
Coombs, Dryden RogersSalt Lake City
Fister, George MorganLogan
Fowler, Benjamin Alma
Gardner, George Logan
Haddock, Don CarlosBloomington, Ida.
Gardner, George Logan Haddock, Don Carlos Bloomington, Ida. Hallock, Edwin Smith Salt Lake City
Hansen, Charles FrancisLeeds
Hartvigsen, Hyrum JacobLogan
Hickman, JosephLogan
Lowe, ArnoldBeaver
Jonsson, Elmer EugeneLogan
Lauritzen, John Irvin
Minear, Virgil LutherSalt Lake City
Mohr, ErnestLogan
McCoy, William Judson
Morrell Adella
Munro, Florence AllisonLogan
Nebeker, Phebe AlmiraLogan
Munro, Florence AllisonLoganNebeker, Phebe AlmiraLoganPoulsen, Frederick NielsSalt Lake CityProsser, William DaviesSalt Lake City
Prosser, William DaviesSalt Lake City
Pack, Herbert John
Rawlings, William SeniorSalt Lake City
Reilly, EvelynSalt Lake City
Richards, Bert LorinLogan
Stearns, Harold JordanSalt Lake City
Smith, Leslie AlbertLogan Spencer, Frank DanielSalt Lake City
Spencer, Frank DanielSalt Lake City
Worlton, James TimbrellSalt Lake City
Wangsgard, IoneLogan
GRADUATES WITH CERTIFICATES.
Home Economics.
Hodson, EdithOgden
Commerce.
O TIVINGTOO.
Picot, Alfred GeorgeLogan

List of Students, 1912-13.

In the following list "a" stands for Agriculture; "ae", for Agricultural Engineering; "ho", for Home Economics; "c", for Commerce; "ma", for Mechanic Arts; "g", for General Science; "m", for Music; "hk", for Housekeepers' Conference; "r", for Round-up; "cr", for Correspondence Department; "ss", for Summer School; "w", for Winter Course; "G", for Graduates; "S", for Senior; "J", for Junior; "So", for Sophomore; "F", for Freshman; "Sp", for Special; "O", for Optional; "4", for Fourth Year; "3", for Third Year; "2", for Second Year; "1" for First Year.

Adams, Basil H., ae-3	Tremonton
Adams, Charles, ma-1	Layton
Adams, Frank D., a-2	Lavton
Adams, Franklin I., r	
Adams, J. Vernon, a-2	
Adams, Jeanette, ss	
Adams, Katherine, ho-S	Layton
Adams, R. N., r	Richfield
Adams, Samuel J., r	Layton
Adams, Venice, ho-w	Logan
Adair, Emma, ss	Cedar City
Ajax, Matthew D., cr	Topele
Aldare, J. R., r	
Ackerman, D. J., r	
Ackerson, Annie, Mrs. hk	Richfield
Aebuschar, Louise, ss	
Affleck, Arville, g-1	
Agren, Rose Ellen, ho-J	Ooden
Alder, Byron, ss	
Alder, Ferdinand C., a-J	Manti
Alder, C., r	Providence
Alexander, Blaine H., a-1	
Alleman, Lelia, ss	Springville
Allen, Alice, m	Richmond
Allen, Ethan La Salle, a-S	Kingston
Allen, Ethel Lowe, ho-3	Cove
Allen, Ezra, r	Logan
Allen, J. C., r	Cove
Allen, Mavil, m	Cove
Allen, Jeanette, ss	Kingston
Allen, Rebecca, hk	
Allen, Robert Leslie, a-3	Logan
Allen, Thomas, a-3	Provo
Allen, W. J., ss	Wellsville
Alred, Rodney C., ma-G.	Lehi
Andelen, A. A., Mrs. hk	

A 1 D T	77111
Anderson, Andrew P., a-J	Fillmore
Anderson, Adeline, ss	North Logan
Anderson, Alma, r	Salina
Anderson, A. C.,ss	Orden
Anderson, Andrew, r	wiarysvaie
Anderson, Anton Mrs.,hk	Logan
Anderson, Anton Frank, ma-2	Shelley Idaho
Anderson, A. M., r	Sigurd
Anderson, Carl, r	Annabella
Anderson, Charles D., a-2	Fort Duchesne
Anderson, Daniel, r	Annaballa
Andrew E.	Aililabella
Anderson, Erwin, r	Sigura
Anderson, Hans P., a-J	
Anderson, J. Fred, g-J	Salt Lake City
Anderson, Joseph A., a-So	Salina
Anderson, Joseph C., ma-W	
Anderson, J. Oscar, r	Salina
Anderson, L. M., r	wiendon
Anderson, Mabel E., ho-2	Smithheld
Anderson, Oluf, r	Richfield
Andrews, Junius J., a-G	Logan
Andrus, Ariel, ma-1	Mammoth
Andrus, Lynn, ae-J	
Archer, Edward J., r	
Archer, Edward J., F	St. John
Argyle, Ben, r	Spanish Fork
Argyle, Horace R., a-So	Spanish Fork
Avery, Frank, r	Salina
Avery, William, r	Venice
Axelson, Arvid, r	Elsinore
Aldous, Tura, g-F	Huntsville
Amussen, George Smith, g-1	Logan
Anatin Com an	T amistan
Austin, Gean, m	Lewiston
Austin, John Leslie, ma-1	Salt Lake
Austin, Wayne, m	Ionteplier, Idaho
Austin, Victor, a-So	.Salt Lake City
Austin, E. A., r	Lewiston
Austin, E. A., hk	Logan
Ashby, B. T., r	Marysvale
Bacon, Helen, ho-3	Torne
Dacon, Helen, no-3	Describers
Baer, Adolph, r	
Baer, A. L., r	
Baer, J. R., r	Providence
Bagley James r	Koosharem
Bagley, Kathleen, ho-So	Murray
Bailey, W. H., cr	Murray
Baker, Blanche, c-3	Dichfold
Dater, Carl - 2	
Baker, Carl, a-2	Logan
Baker, Edna, ss	Mendon
Baker, George, r	Richfield
Baker, Mrs. George, hk	Richfield
Baker I S r	Mendon
Baker, Jessie M., r., T. Baker, Mrs. Sarah, hk.	eton City, Idaho
Baker Mrs Sarah hk	Logen
Danci, mis. Daian, mr	gan

Baker Mrs. Saddie, hkLogan
Baker, William, crLoa
Balls, L., r
Dails, L. A I Jacon
Ball, L. A., rLogan
Ball, W. M., r
Ballantyne, Glenna, ho-2Logan
Ballantyne, R. A., rLogan
Ballantyne, Mrs. R. B.,hkLogan
Ballif, Leonard H., a-2Logan
Bane, James, ma-W
Danie, Janes, Ilia-ty.
Barber, Herbert R., ma-wLogan
Barber, George Percy, g-1Logan
Barber, Solon R., g-1Logan
Barber, Seth Langton, c-FLogan
Barber, Walter F., a-FLogan
Barker, J. D., a-JOgden
Barker, Nellie, ho-SoOgden
Barfuss, Christian D., c-2Logan
Dariuss, Christian D., C-2
Barfuss, Charles, a-wLogan
Barlow, Mrs A. C., hkRichfield
Barlow, G., r
Barlow, James, r
Barlow, Mrs. Kate, hkRichfield
Barnard, Nellie, ss
Damas Harakal - 1
Barnes, Herschel, a-1Standrod
Barney, Malenda, ho-Sp. Logan Barney, R. H., r. Annabella
Barney, R. H., rAnnabella
Barrett, Edward, L., a-SLogan
Barrett, Florence, c-1Logan
Barton, Mrs. N. S.,hkRichfield
Barton, Scott, rRichfield
Bartlett, Allan, C-FSalt Lake
Bartiett, Allall, C-F
Bastain, G., rSigurd
Bastow, George, rRichfield
Bastow, Irvin S., C-1River Heights
Bastow, Mary L., g-SLogan
Bates, Flora, hkRichfield
Bates, George L., a-SoMonroe
Rateson Arthur Grant cow
Bateson, Arthur Grant, c-wLogan Batt, William B., aSpLogan
Datt, William D., asp Logan
Bawley, C. B., r
Black, C. T., rRichfield
Blackburn, Allie, hk
Blair, Millington a-2
Blauer, John F., a-w Granger
Blauer, John F., a-w. Granger Brain, Mrs, Hattie, hk. Junction
Bracken, Aaron F., a-S
Panch Edward U or
Bench, Edward H., cr
Bennion, Edward, rLogan
Bennion, E. A., a-2Logan
Bennion, Heber, Sr., rSalt Lake City
Bennion, Heber, Jr., a-S. Salt Lake City Bennion, Lavon, ho-2. Logan
Bennion, Lavon, ho-2.
Larent, Logan

Bennion, Lora, ho-1Logan
Bennion, Mary, ho-SoSalt Lake
Bennion, T. W., a-SSandy
Benson, Emory H., a-1Newton
Benson, E. T., r
Benson, F. A., rLogan
Denson, C. A., F Logan
Benson, Grette R., ho-SoLogan
Benson, Hedvig, ho-JLogan
Benson, John Phineus, a-SoNewton
Benson, L. T., r
Benson, W., rLogan
Bengard, M., rVenice
Bentler, Amy, ss
Bentler, Amy, ss
Bentley, Richard I., a-wSt. George
Berg, Louise, ss
Bergeson, Abraham, a-wLogan
Bergeson, Bernard, C-1Logan
Dengerous Mouse to Co.
Bergstrom, Mary, ho-So
Berrett, Thomas E., a-wNorth Odgen
Beagley, Le Roy, ssNephi
Beal, George A., rRichfield
Beal, George A, r
Beal, Mary, hkRichfield
Bean, Annie, hkRichfield
Bean, C. L., r
Bean, Cecile, hkRichfield
Bean, Hattie, hk
Bean, J. W., r
Bean, Mary, hk
Bean, Orea, g-3Provo
Dean, Viewil
Bean, Virgil, rRichfield
Beautler, Charles R., rRichfield
Bearnson, Julius B., c-JLogan
Bearnson, Wm. L., g-3
Becraft, Raymond, a-SoOgden
Behling, John W., a-3Ferron
Bell, Alma, a-wLogan
Bell. Clyde. r
Bell, H. H., rGlenwood
Bell, Mrs. H. H., hk
Bell, Lizzie, hkGlenwood
Bell, Mrs. Lerie,hkGlenwood
Bell, M. O., r
Dellistan William T Nobi
Belliston, William T., cr
Belliap, Hyrum A.,C-SpOgden
Bills, Lancelot, a-1
Bingham, B. F., rLogan
Bingham, Mrs. J. L., hk Logan Bingham, Martham, C-1 Logan
Bingham, Martham, C-1Logan
Bingham, P. P., rSmithfield
Bingham, Mrs. S. L., hk. Logan Bingham, S. L., a-Sp. Logan
Bingham, S. L., a-SpLogan

Bingham, Mrs. W., hkLogan
Bingham, Mrs. W., nk
Birch, Byron, ae-F
Bird, Lucille, g-1Mendon
Bird, Lucille, g-1
Bislen, Jacob S., rLoa Bitters, Mrs. Eliza, hkLogan
Bitters Mrs Fligg hk
Billers, Mrs. Eliza, Ilk
Bitters, Joseph, r
Blickensderfer, Jacob, ae-1Logan
Brigham, William, rLogan
Bodrero, Jeffrey, rLogan
Bolitho Tames M. r Richfield
Bodrero, Jeffrey, r Logan Bolitho, James M., r. Richfield Bolitho, Mrs. J. M., hk. Richfield
Bolitho, Mary A., hk
Double T. Mary A., IR
Booth, John Albert, a-SoNephi
Borg, Antone, r
Borquist, John, rRichfield
Bowen, John E., C-JSpanish Fork
Bowman, Nell, ssOgden
Rogle Louis F a-G Murray
Bogle, Louis F., a-G. Murray Bjorkman, Arthur. C-2. Logan
Bjorkman, Artnur, C-2
Bjorkman, Carla Aurora, c-2Logan
Bloomquist, G. W., rRichfield
Brodbent, J., rSigurd
Brossard, Elmer, a-SLogan
Brossard, Elmer, a-S. Logan Brossard, Howard S., ae-F. Logan
Brough Phoeba hk
Brough, Phoebe, hk. Logan Brough, S. R., r. Lyman
Brough, S. K., L., Cynlan
Brown, Eva, ssOgden
Brownell, Wm. F., crSalt Lake
Browning, Miss O., hkLogan
Browne, Allen, a-1
Brown, Carrie, ho-1Logan
Brown, Mark C., g-sp
Brown, Scott B., a-1Logan
Brown, Sect. B., a-1
Brown, S. G., r. Koorsharem Brown, W. T., r. Hatch Buchanan, A. W., r
Brown, W. I., rHatch
Buchanan, A. W., rVenice
Buchanan, Boyd, rVenice
Buchanan, Clarence, r
Buchanan, Elwood, rVenice
Buchanan, Edward, rVenice
Buchanan, L. D., rVenice
Buchanan, L. D., fvenice
Buchanan, Roy, r.VeniceBuchanan, W. W., r.VeniceBuck, Richard F., g-SoPark City
Buchanan, W. W., rVenice
Buck, Richard F., g-SoPark City
Budge, Scott Merrill, g-1 Logan Buhler, Charles Edwin, a-2 Midway
Buhler, Charles Edwin, a-2
Bullen, Bryant, a-JLogan
Bullen, Syrus, r
Bullock, Harold, r
Dullock, Harold, FProvidence
Bullock, J. B., rProvidence
Burgess, Donna V., crRoosevelt
Burgess, Donna V., cr

Burgon, Vera, g-FGarland
Burk, Asahel W., g-S. Logan Burk, Ellen J., ss. Ogden
Burk, Ellen J., ss
Kurk I W r
Burnett, David M., c-2
Burnett, David M., c-2. Mackay, Idaho Burnett, Grover, a-F. Darlington, Idaho
Burnham, Caroline, ho-3Logan
Burnham, Ethelin, ssRichmond
Burnham, Pauline, g-sp
Burnham, Ivie, ssLogan
Burnham, Linda, ssRichmond
Burgener, W. H., ss
Burns, Retta, c-SoLogan
Burton, Josephine, ho-SOgden
Burton, Myrtle, hkLogan
Burton, Sarah A., hkLogan
Burton, Walter B., a-3Salt Lake
Busby, Bert W., g-1Logan
Butt, Newbern Isaac, a-SoLehi
Butt, Newbern 18aac, a-50.
Buttors, Grover, a-w
Buttors, Towney, a-w
Brugger, G., rVenice
Brugger, George, rVenice
Brugger, Willard, rVenice
Cahoon, Andrew C., a-1
Cahoon, George E., a-So
Caine, Alfred B., a-J
Caine, Arthur H., a-FRichmond
Caine, John S., a-wSalt Lake City
Caine, Joseph, g-FSalt Lake City
Caine, Robert, g-FSalt Lake City
Calloway, Anna, hkRichfield
Canfield, Charles I., c-1Preston, Ida.
Campbell, Geneva, mPerry, Ida.
Cannon, Anna, hk
Cannon, Clawson Y., a-SPark City
Cannon, Clyde Peart, ma-4. Logan Cannon, J. M., r. Logan
Cannon, J. M., rLogan
Cannon, John B., rSalt Lake City
Capener, A. A., rRiverside
Cardon, E. P., rLogan
Carlson, Charles, r
Carlson, Conrad S., g-SoLogan
Carlson, Joseph r
Carlson Fred I ma-1
Carlson, Marie, ho-SOgden
Carlson, Nels, rLogan
Carlson, Nephi, rLogan
Carlson, Olga, ssLogan
Carlson, Raymond, c-SoLogan
Carlson, Vincent S., g-1Logan
Carlisle Heber G hk
Carlisle, Martha A., ho-2King

Carrington, Albert, g-Sp	Logan
Carrington, Mrs. C., hk	Logan
Carrington, Miss. C., IR.	V1
Carroll, Daniel S., a-1	v ernai
Carroll, Esther A., hk	Logan
Carroll, Leroy E., a-3	Vernal
Carrell Orest 2, 4	V crinar
Carroll, Orval, a-1	vernai
Carson, J. Alma, r	Richmond
Carson, LaRue, ho-3	Richmond
Carson, Earth, 10	T
Carter, Ezra, a-S	Logan
Carter, Wesley J., m	Tremonton
Catmull, Nathaniel, c-1	Rigge Cal
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Chalk, Barnetta, hk	Richiteld
Chambers, Josephine, g-J	Salt Lake
Chambers, Veda E., cr	Smithfield
Clarada C II	T -1- Cites
Chandler, C. H., r	t Lake City
Chantrill, James, r	Benson
Charlesworth, George, r	Richfield
Clark, Ernest, a-So	T a man
Clark, Ernest, a-So	Logan
Clark, Edward John, g-Sp	Logan
Clark, Harold Grover, c-1	Morgan
Clark Tar Tempo as	Lawan
Clark, Lu Emma, ss	Logan
Clark, Lester Laverne, a-w	Clarkston
Clark, Maud, ss	Kino
Clark, Madd, 33	C114
Clark, Paul Michael, a-w	Clarkston
Clark, Walter E., crGeorg	etown, Ida
Clark, William S., g-S	Provo
Clark, Lucina, ss	Camin and 11 a
Clark, Lucina, SS	. Springvine
Clarke, Rebecca, ss	Logan
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Clarke, Rebecca, ss Clawson, Alma, r Clawson, A. J., ss Clawson, Edna, hk	Logan reston, Ida. Hyrum Logan
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Clarke, Rebecca, ss. Clawson, Alma, r. Clawson, A. J., ss. Clawson, Edna, hk. Clawson, Elmer, g-1 Clawson, Leo B., c-J. Clayton, Christine, ho-J. Sal	Logan reston, IdaHyrumLogan .Providence .Providence t Lake City
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Christonson	Bertha M., hkRichfield
Christensen,	C A Richfield
Christensen,	C. A., rMonroe
Christensen,	Carn, hk
Christensen,	Carlos, rRichfield
Christensen,	C. J., rInverury
Christensen,	Emma Amelia, ssLogan
Christensen,	Ethel, hkRichfield
Christensen.	Erastus, rRedmond
Christensen.	Mrs. Erastus, hk
Christensen.	Etta, hk
Christensen	G. A., rRedmond
Christensen	Gladys, ho-FLogan
Christensen,	H. A., ss
Christensen,	Hone a
Christensen,	Hans, r
Christensen,	Hans A., rRichfield
Christensen,	Hans P., rRichfield
Christensen,	Hans P., rAnnabella
Christensen,	Hans., rRichfield
Christensen,	Isabel, hkRichfield
Christensen,	J. C., hkRichfield
Christensen,	James, rInverury
Christensen,	James, rRichfield
Christensen,	John, rRichfield
Christensen,	John, rRichfield
Christensen,	Josephine, hkRichfield
Christensen.	Laura, hk
Christensen,	Leonard, rRichfield
Christensen.	Martinius, rRichfield
Christensen,	Mrs. Martin, hkRichfield
Christensen,	Nephi E., rRichfield
Christensen,	Ole, ssNephi
Christensen,	Oswald, ss
Christensen,	Ralph, rRichfield
Christensen	Randall, a-3
	Roy, r
Christensen	Simon, r
Christensen	Thursa, hkRichfield
Christensen	Viggo, rInverury
Christensen	Walter, rInvertify
Christensen,	William, r
Christenson	Mrs. William, hkRichfield
Christensen,	W. C Distraction
Christensen,	W. C., r. Richfield W. W., ss. Tremont
Christensen,	Anton, rBear River City, Ida.
Christenson,	Chair Bean Birry City, Ida.
	Chris., r
	H. E., r
Christenson,	Nephi, r
Christenson,	Wallace, r
Christiansen	, Archie L. a-JFountain Green
Christiansen	Charles, rInverury
Christiansen	, C. K., rInverury
Christensen,	Mrs. Florence, hkLogan George, rRichfield
(hristiansen	George T Richfield

Christiansen, Hans Anthon, a-JNephi
Christiansen, Mrs. James, hk
Christiansen, Mrs. James, nk
Christiansen, John B., rInverury
Christiansen, Jennie, ss
Christiansen, L. P., rRedmond
Christiansen, Lena, hk
Christiansen, Lena, nk
Christiansen, Maud, hkRichfield
Christiansen, P., r., Elsinore
Christiansen, Soren, r
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Christiansen, Stena, hkRichfield
Christiansen, Mrs. Sorn, hk
Christianson, Edward, g-3Spanish Fork
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Critchlow, George, ma-1Ogden
Criddle, William, rSyracuse
Criddle, Millie, hkLogan
Criddle, Estella, hkLogan Christofferson, Anna, hkRichfield
C1 to Command American
Christonerson, Anna, nk
Colby, Joseph, rSalina
Cole, Ira A., g-SpLogan
Coleman, James, rNephi
Coleman, James, I
Collett, Luella L., ho-1Logan
Condie, John W., g-SpCroydon
Coombs, D. R., g-SSalt Lake City
Cook, A. L., a-JGarden City
Cook, Helen L., ho-1
Cook, releii L., 110-1
Coons, Charles, r
Coons, G. W., r
Coons. I. r
Coons, J. W., rRichfield
Colls, J. W., I
Coons, John, rRichfield
Cooper, Mildred, hkLogan
Cornish, Tilla, ho-SpLogan
Cornwall, Rose, hkLogan
Cotter, Clarence E, a-SoLehi
Cotter, Clarence E, a-So
Crockett, John Leslie, c-1Logan
Crockett, Eva, c-4Logan
Crook, Margaret, cr
Crook, Ray, a-2
Crook, Ray, a-2
Crookston, Agnes, ho-SpLogan
Crookston Burns, ae-F
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Crookston, Burns, ae-F
Crookston, Burns, ae-F. Logan Crookston, Byron, a-Sp. Logan Crookston, Laurn, a-2. Greenville Crookston, Newell J., c-F. North Logan
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Crookston, Burns, ae-F. Logan Crookston, Byron, a-Sp. Logan Crookston, Laurn, a-2. Greenville Crookston, Newell J., c-F. North Logan Crookston, W. O., r. North Logan Crothers, W. H., r. Logan Crowsier, J. W., r. Salina Crowther, Alice, hk. Logan Crowther, Rachel, hk. Logan

Cowley, E. A., hkRichfield
Cowley, F. W., rVenice
Courley Length A a C
Cowley, Israel A., c-OLogan
Cowley, J. W., rLogan
Cowley, J. E., rVenice
Cowley I C Yenice
Cowley, J. C., rVenice
Cowley, Jennie, hkVenice
Cowley, Laura, ho-JLogan
Cowley, Ray, rVenice
Cowicy, Ray, 1 venice
Cowley, R. A., rVenice
Cowley, Vorsell, rVenice
Cowley, W. C., rVenice
Cowicy, vv. C., 1 veince
Chuggs, W. H., rProvidence
Chugg, Mabel, hkLogan
Churchman, Edith, ho-2Fish Haven, Ida.
Cultur Patral 1 - I
Cutler, Ethel, ho-JLogan
Cutler, Heber S., rSalt Lake
Curtis, Alfred, rAurora
Curtis, C. G., a-SpLogan
Dahle, LaVere, ma-w
Dahle, John E., rLogan
Deble Mee I E his
Dahle, Mrs. J. E., hkLogan
Dahle, Russel, ma-w
Daines, J. B., r
Daines, LaVere Hatch, c-wLogan
Dalles, Lavele Hatch, C-W
Daines, William M., rMapleton
Dallof, Albert, c-SoSmithfield
Dalley, John E., rLogan
Dally Variable Color
Dalley, Kate, ss
Dalley, Milton F., rLogan
Dall, David, rRichfield
Dall, Sam, rRichfield
Dame, W. F., a-wMeadow
Davenport, Ethel, ho-S
Daniels, Shirley K., a-SoVernal
Dalliels, Silliney K., a-50verlial
Daniels, Virginia, ssLogan
Daniels, William, rAnnabella
Danielson, Rose, ss
Davis Frank Cost
Davis, Frank S., crCastie Gate
Davis, A. G., rLogan
Davis, Marion L., g-1Tooele
Davidson, Myrtle, g-SpLogan
Davidson, Myrtie, g-Sp
Davidson, Edward, ma-wFort Bridger, Wyo.
Davidson Edith g-Sp
Davidson H A Fort Bridger Wyo
Davidson, II. A., I
Davidson, H. A., r. Fort Bridger, Wyo. Davidson, Leonard L., a-So Ogden
Davidson, Martha, mLogan
Dastrup, Jacob, rSigurd
Data Isla Caral
Dastrup, John, r
Dastrup, Leland, r
Dastrup, Ethel, hkRichfield
Dastrup, Lula, hkSigurd
Dastrup, Luia, iik
Dastrup, Miga, hkSigurd

Dastrup, Minnie, hkS	igurd
Dastrup, Ole, rRicl	hfield
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Day, C. H., cr. Fill DeWitt, Robert R., g-1. L	шоге
DeWitt, Robert R., g-1L	ogan
Despin, James L., rV	enice
Desplain, C. L., crFountain (Green
Dewey, I. S., ss	yville
Dixon, Asael H., a-S L.	ogan
Divon Mrs C F hk	vson
Dixon, F. C., r	veon
Dixon, Riley, c-1	Tda
Dixon, Kney, C-1	Ma.
Doll, Earl, ma-1	MO.
Done, Alice, c-3Smith	hheld
Done, Ann, hkJun	ction
Done, J. F., r	hfield
Doney, William, c-2Franklin	. Ida.
Donahue, Mrs., hkRicl	hfield
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Dorius, J. M., cr. Fountain C Doutre, William, c-F. L Downs, Ethel S., ho-1. L	0000
Double, winding C-1.	ogan
Downs, Etner S., no-1	ogan
Dudley, B. S., rL	ogan
Dudley, Park, ma-1L	ogan
Duke, Verne V., ma-3. Sant: Dunford, A. B., r	aquin
Dunford, A. B., rL	ogan
Dunford, Bailey A., ma-wL	ogan
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Diintord George W C-/	.ogan
Dunford, George M., c-2L	ogan
Dunford, Grover C., c-FL	ogan
Dunford, Grover C., c-FL	ogan
Dunford, Grover C., c-F	ogan , Ida. , Ida.
Dunford, Grover C., c-F	ogan , Ida. , Ida. Lake
Dunford, Grover C., c-F. L. Dunford, James L., ma-3. Bloomington, Dunford, R. B., ss. Bloomington, Dunford, Rachel G., g-F. Salt Dunkley, Mrs. J. A., hk. L.	ogan , Ida. , Ida. Lake
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Dunford, Grover C., c-F. Dunford, James L., ma-3. Bloomington, Dunford, R. B., ss. Bloomington, Dunford, Rachel G., g-F. Salt Dunkley, Mrs. J. A., hk. Dunn, John, r. Dunn, William, r. Durtchi, Fred, ma-1. Durtchi, Huldrich, a-1. Druckeman, Benjamin, cr. Loomington, Bloomington, Loomington, Salt Lounkley, Mrs. J. Charl Druckeman, Benjamin, cr.	ogan, Ida., Ida. Lake ogan oseph oseph dway eston arion
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Dunford, Grover C., c-F. Dunford, James L., ma-3. Bloomington, Dunford, R. B., ss. Bloomington, Dunford, Rachel G., g-F. Salt Dunkley, Mrs. J. A., hk. Dunn, John, r. Dunn, William, r. Durtchi, Fred, ma-1. Durtchi, Huldrich, a-1. Druckeman, Benjamin, cr Cl Dyches, Mrs. T. W., hk Eames, Nathaniel, a-2. Earle, Frank M., a-1. Earle, Ira L. c-3. L	ogan, Ida., Ida., Lake Logan oseph dway eston arion Dale, Logan Logan
Dunford, Grover C., c-F. Dunford, James L., ma-3. Bloomington, Dunford, R. B., ss. Bloomington, Dunford, R. B., ss. Bloomington, Dunford, Rachel G., g-F. Dunkley, Mrs. J. A., hk. Lunn, John, r. Dunn, William, r. Durtchi, Fred, ma-1. Mi Durtchi, Huldrich, a-1. Druckeman, Benjamin, cr Cl Dyches, Mrs. T. W., hk. Castle Eames, Nathaniel, a-2. Earle, Frank M., a-1. Earle, Ira J., c-3. L Eccles, Emma, ho-1. L	ogan, Ida., Ida. Lake logan oseph dway eston arion Dale logan logan logan logan logan logan
Dunford, Grover C., c-F. Dunford, James L., ma-3. Bloomington, Dunford, R. B., ss. Bloomington, Dunford, Rachel G., g-F. Dunford, Rachel G., g-F. Dunkley, Mrs. J. A., hk. Lunn, John, r. Dunn, William, r. Durtchi, Fred, ma-1. Mit Charl Durtchi, Huldrich, a-1 Druckeman, Benjamin, cr Cl Dyches, Mrs. T. W., hk Castle Eames, Nathaniel, a-2. Earle, Frank M., a-1 Earle, Ira J., c-3 Eccles, Emma, ho-1 Eccles, Jessie, g-3 L Bloomington, Call Charl Durtchi, Charl Castle Castle Earle, Ira J., c-3 L Eccles, Emma, ho-1 Eccles, Jessie, g-3	ogan, Ida., Ida. Lake ogan oseph oseph dway eston arion Dale Ida. ogan ogan
Dunford, Grover C., c-F Dunford, James L., ma-3. Bloomington, Dunford, R. B., ss. Bloomington, Dunford, Rachel G., g-F Dunkley, Mrs. J. A., hk. L Dunn, John, r. Jo Dunn, William, r. Jo Durtchi, Fred, ma-1. Mi Durtchi, Fred, ma-1. Charl Druckeman, Benjamin, cr Cl Dyches, Mrs. T. W., hk. Castle Eames, Nathaniel, a-2. Preston, Earle, Frank M., a-1 L Earle, Ira J., c-3. L Eccles, Emma, ho-1 Eccles, Jessie, g-3. L Eccles, Marie, g-Sp. L	ogan, Ida., Ida. Lake Logan oseph dway eston arion Dale, Ida. logan logan logan logan logan
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Dunford, Grover C., c-F. Dunford, James L., ma-3. Bloomington, Dunford, R. B., ss. Bloomington, Dunford, Rachel G., g-F. Dunkley, Mrs. J. A., hk. Lunn, John, r. Dunn, William, r. Durtchi, Fred, ma-1. Durtchi, Huldrich, a-1. Charl Druckeman, Benjamin, cr Clyches, Mrs. T. W., hk Eames, Nathaniel, a-2. Earle, Frank M., a-1. Earle, Ira J., c-3. Eccles, Emma, ho-1 Eccles, Jessie, g-3. Eccles, Marie, g-Sp. LEccles, Spencer, c-F.	ogan, Ida., Ida., Ida. Lake Logan oseph dway eston arion Dale Logan Loga
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Dunford, Grover C., c-F. Dunford, James L., ma-3. Bloomington, Dunford, R. B., ss. Bloomington, Dunford, Rachel G., g-F. Salt Dunkley, Mrs. J. A., hk. Lunn, John, r. Dunn, William, r. Jounn, William, r. Durtchi, Fred, ma-1. Milurtchi, Huldrich, a-1. Druckeman, Benjamin, cr Cl Dyches, Mrs. T. W., hk. Castle Eames, Nathaniel, a-2. Earle, Frank M., a-1 Earle, Ira J., c-3. Lunder Castle, Ira J., c-3. Eccles, Emma, ho-1. Eccles, Jessie, g-3. Leccles, Marie, g-Sp. Leckerson, Joseph, r. Edlefsen, Edlef, a-3. Edwards, May, g-Sp. Ledwards, May, g-Sp. Ledward	ogan, Ida., Ida. Lake Logan oseph dway eston arion Dale Ida. Logan
Dunford, Grover C., c-F. Dunford, James L., ma-3. Bloomington, Dunford, R. B., ss. Bloomington, Dunford, Rachel G., g-F. Salt Dunkley, Mrs. J. A., hk. Lunn, John, r. Dunn, William, r. Jounn, William, r. Durtchi, Fred, ma-1. Milurtchi, Huldrich, a-1. Druckeman, Benjamin, cr Cl Dyches, Mrs. T. W., hk. Castle Eames, Nathaniel, a-2. Earle, Frank M., a-1 Earle, Ira J., c-3. Lunder Castle, Ira J., c-3. Eccles, Emma, ho-1. Eccles, Jessie, g-3. Leccles, Marie, g-Sp. Leckerson, Joseph, r. Edlefsen, Edlef, a-3. Edwards, May, g-Sp. Ledwards, May, g-Sp. Ledward	ogan, Ida., Ida. Lake Logan oseph dway eston arion Dale Ida. Logan
Dunford, Grover C., c-F Dunford, James L., ma-3. Bloomington, Dunford, R. B., ss. Bloomington, Dunford, Rachel G., g-F Dunkley, Mrs. J. A., hk. L Dunn, John, r. Jo Dunn, William, r. Jo Durtchi, Fred, ma-1. Mi Durtchi, Fred, ma-1. Charl Druckeman, Benjamin, cr Cl Dyches, Mrs. T. W., hk. Castle Eames, Nathaniel, a-2. Preston, Earle, Frank M., a-1. L Earle, Ira J., c-3. L Eccles, Emma, ho-1. L Eccles, Jessie, g-3. L Eccles, Marie, g-Sp. L Eccles, Marie, g-Sp. L Eckerson, Joseph, r. S Edderson, Joseph, r. S Edwards, May, g-Sp. L Edwards, Mclairon, g-1 Egbert, Delmar, c-2. L	ogan, Ida., Ida. Lake Logan oseph dway eston arion Dale Ida. Logan
Dunford, Grover C., c-F. Dunford, James L., ma-3. Bloomington, Dunford, R. B., ss. Bloomington, Dunford, R. B., ss. Bloomington, Dunford, R. B., ss. Bloomington, Dunford, Rachel G., g-F. Salt Dunkley, Mrs. J. A., hk. L Dunn, John, r. Jounn, William, r. Jounn, William, r. Durtchi, Fred, ma-1. Mi Durtchi, Huldrich, a-1. Charl Druckeman, Benjamin, cr Cl Dyches, Mrs. T. W., hk. Castle Eames, Nathaniel, a-2. Preston, Earle, Frank M., a-1. LEccles, Emma, ho-1. LEccles, Jessie, g-3. LEccles, Marie, g-Sp. LEccles, Marie, g-Sp. LEccles, Spencer, c-F. LEckerson, Joseph, r. Seldefsen, Edlef, a-3. LEdwards, May, g-Sp. LEdwards, May, g-Sp. LEdwards, May, g-Sp. LEgbert, Delmar, c-2. LEgbert, Delmar, c-2. LEgbert, Rov. ss.	ogan, Ida., Ida. Lake ogan oseph oseph dway eston arion Dale, Ida. ogan ogan ogan ogan ogan ogan ogan ogan
Dunford, Grover C., c-F Dunford, James L., ma-3. Bloomington, Dunford, R. B., ss. Bloomington, Dunford, Rachel G., g-F Dunkley, Mrs. J. A., hk. L Dunn, John, r. Jo Dunn, William, r. Jo Durtchi, Fred, ma-1. Mi Durtchi, Fred, ma-1. Charl Druckeman, Benjamin, cr Cl Dyches, Mrs. T. W., hk. Castle Eames, Nathaniel, a-2. Preston, Earle, Frank M., a-1. L Earle, Ira J., c-3. L Eccles, Emma, ho-1. L Eccles, Jessie, g-3. L Eccles, Marie, g-Sp. L Eccles, Marie, g-Sp. L Eckerson, Joseph, r. S Edderson, Joseph, r. S Edwards, May, g-Sp. L Edwards, Mclairon, g-1 Egbert, Delmar, c-2. L	ogan, Ida., Ida. Lake ogan oseph oseph dway eston arion Dale Ida. ogan ogan ogan ogan ogan ogan ogan ogan

Eldridge, James S., r	Salt Lake
Eldridge, H. R., r	Cardston, Canada
Eliason, Andrew, r	Logan
Ellertson, Jesse N., c-J	· Mona
Ellis, Rebecca, c-1	Logan
Elliott, Hattie, hk	
Ellsworth, Genevieve, ho-1	Dight Ide
Elloworth John O - Co	Kigby, Ida.
Ellsworth, John O., a-So	D'-1- T1-
Ellsworth, Orba, c-So	
Ence, Amelia, hk	Richneld
Ence, J. A., r	Richneld
England, Henrietta V., ho-1	Logan
England, Virginia, m	Logan
Evans, Lawrence H., g-Sp	Nephi
Evans, William, r	Logan
Erickson, Mrs., hk	Richfield
Erickson, Edward, r	Koorsharem
Erickson, Irene E., ho-1	Logan
Erickson Ioseph r	Richfield
Erickson, Judith, c-3. Erickson, Theodore, a-F.	Logan
Frickson Theodore 2-F	Murray
Eskelsen, David W., ma-So	Kamas
Eskelsen, B. D., hk	Logan
Esplin, Alma, ss	Ordorvillo
Ewing, Bess, ss	Order
Ewing, Dess, ss	D1- 1-6 T1-
Fackrell, Cyrus F., a-w	blackfoot, Ida.
Fairbanks, Joseph, r	Annabella
Fairbanks, Mrs. Joseph, hk	Annabella
Falkinan, George B., r. Farrell, George L., r.	North Logan
Farrell, George L., r	Smithfield
Farrell, A. L., r	
Farrell, Gladys, ss	Logan
Farrell, James, a-3	Salt Lake
Farrell, Lola, ho-3	Smithfield
Farnsworth, P. Y., r	Elsinore
Franson, John, r	Oaklev
France, Horace R., ma-1	Peterson
Fraser, E. S., g-J	Salt Lake
Felt Arthur ma-2	Huntsville
Felt, Arthur, ma-2 Fletcher, Samuel, ma-2	Hooner
Frederick, Albert, r	Providence
Frederick, Myron, r	Drovidence
Frederick, Mrs. Lillie, hk	Togge
Frederick, Mrs. Lillie, IIK	T
Fredericks, Mrs. N., hk	Logan
Freese, Dr., hk	Sanna
Frew, Arnold, a-F	Hooper
Frew, Eugene, a-J	
Fife, Charles Stanley, a-w	Idaho Falls, Ida.
Fife, Lewis, r	Providence
Fife, Walter, r	Providence
Fillmore, Mrs. Bell. hk	
Finley, Lucy, ss	Oneida, Ill.
Fishburn, Hope, ho-Sp	Brigham City

Fister, George, g-S	Logan
Fister, Grace, ss	Salt Take City
E'+-1- II	Establish
Fitch, Howard, a-w	Eureka
Flint, Letitia, g-Sp	North Logan
Fonnesbeck, Luna, g-Sp. Fonnesbeck, Lydia, ss.	Logan
Fonnesheck Lydia ss	Logan
E-mochasta M C -	Toron
Fonnesbeck, N. C., r	Logan
Ford, John, r	Sigurd
Forbes, C .H., c-J	Ogden
Foster, Edna, ho-Sp. Foster, Joseph D., a-S.	Preston Ida.
Foster Jacob D o C	T arrest
Poster, Joseph D., a-S	Layton
Foster, Winnifred, ho-2	Preston, Ida.
Fowler, Benjamin A., g-S	Hooper
Fowler David Henry g-Sp.	Hooper
Fowler, David Henry, g-Sp. Foutz, Mrs. E. A., hk.	Dichfield
Toutz, Mis. E. A., III.	Dofort I.I.
Floyd, Lyman E., c-3	Driggs, Ida.
Floyd, Ruby C., ho-2	Driggs, Ida.
Frodsham, Mary, ho-F	Rockland
Frodsham, Mary, ho-F. Freeman, Alf., ss	Brigham City
Eng Hamas D. an '	Manage
Fry, Henry B., cr	
Fry, Lee Ralph, a-1	Morgan
Fuhriman, Godfrey, r	Providence
Fuhriman, Joseph, r	Providence
Fuller, Lilly Jane, ho-2	Edan
Fuller, Lilly Jaile, 110-2	Eden
Fuller, Lydia, m	Eden
Fuller, Eva May, ho-w	Eden
Fuller, Robert E., c-w	Eden
Fullmer, Effie, ho-Sp	Circleville
E. 1. C. T.	D: 1 1
Funk, C. L., r.	Kicnmond
Gardener, John A., r	Logan
Gardner, Erastus S., a-2	Pine Valley
Gardner, Erastus S., a-2. Gardner, George, g-S.	Logan
Cardner C H .	Mondon
Gardner, G. H., r	
Gardner, Grandison, g-F	Logan
Gardner, Marie, g-F	
Gardner, Robert V., ma-w	Sandy
Gardner, William, r	Venice
Gardner, Mrs. William, hk	Diabeald
Gardner, Mrs. william, nk	Riciineid
Gardner, Willard, g-G	Logan
Garff, Orson A., r	Draper
Garner, Marie, ho-So	Ogden
Gates, Franklin Y., g-3.	Solt I also City
Crates, Plankin 1., g-J	. Sail Lake City
Grace, J. W., r	Riverton
Grace, Elonard, r	.Salt Lake City
Gramse R. r	Richfield
Gramse, Tell, r Gramse, Vialate, hk	Richfield
Cramas Violeta his	T a come
Granise, vialate, fik	Logan
Grant, Fred James, a-3	Salt Lake
Grant, E., hk	Logan
Grant George M. r.	Hvde Park
Grant Mary co	Hyda Darl
Grant, Mary, ss	C. 1. I 1 C.
Grant, Mary, ss	Salt Lake City
Graham, William, r	Annabella

Grandin, John J., ae-3	Logan
Grav. S. R., r	Inverurv
Gray, Leo., g-2	Perry, Ida.
Grant, Francis C., g-3	Perry. Ida.
Gleason, A. H., r	Logan
Gleason, Mary, ss	Pleasant Grove
Gleaves, H., r	Annabella
Gleaves, Walter, r	Annahella
Gleddell, J. G., r	Signed
Gledhill, Elanson, r	Richfield
Gledhill, Dr., r	Richfield
Gledhill, John E., r	Dichfield
Gledhill, L. B., r.	Vormilion
Gledhill, Thomas, r	verininon
Glenn, watter J., a-S	C-14 T-1- Cit
Greene, H., r	Salt Lake City
Greené, J. T., cr	Salt Lake City
Green, Ambrose L., ma-1	Clover
Green, Clifford J., ma-1	Clover
Green, Harry M., a-F	Salt Lake City
Green, Maggie D., ss	Layton
Green, Mark H., c-S	American Fork
Greaves, Card, c-3	Logan
Gregerson, C. L., r	Elsinore
Greenwood, Bertha, r	Central
Greenwood, E. M. r	Elsinore
Greenwood, H., r	Inverury
Greenwood, Josie, ss	American Fork
Greenhalgh, Eurilla, ho-Sp	Logan
Greenhalgh, Truman, c-2	Logan
Greenhalgh, Truman, c-2. Greenhalgh, Violet, ho-J.	Logan
Gibbons, Olga B., ss	Logan
Gilbert, Eliza A., hk	Insenh
Gilbert, Thomas, r	
Griffin, Amos R., a-J	Newton
Griffin, John E., r	Newton
Griffin, Reuben L., ma-w	Clarkston
Griffiths, Andrew H., ma-w	Clarkston
Griffiths, William H., ss	Clarkston
Cittens Effic a-S	Mandon
Gittens, Effie, g-S. Griswold, Scott, ma-w.	I as Nav
Godbe, Lawrence, ae-So	Solt I also City
Godbe, Lawrence, r	Dail Lake City
Gonzalez, Manrique R., a-S	IIyde Faik
Contained Charles II - 2	Logan
Goodwin, Charles H., a-3	Logan
Goodwin, Clarence, a-1	Logan
Goodwin, Nettie, g-J	Logan
Goodsell, Mrs. Charles, hk	Logan
Goodspeed, W. E., a-S.	Salt Lake City
Godfredson, Louisa, hk	Richheld
Goldbranson, Miss, hk	Richfield
Goldbrandson, Mrs. Lon, hk	Richfield
Gorning, Alta, hk	Richfield

Gowers, Roy, a-SoNephi
Groebli Albert c-1
Groebli, Albert, c-1
Groebii, Katharine Enzabeth, C-S
Groebli, Gladys, ho-2Logan
Guild, Leonard G., a-1Piedmont, Wyo.
Gunn, Klea M., ho-2
Gunn, Welford, rSigurd
Guill, we chord, I
Hackett, G. F., rGlenwood
Haddock, Lon J., a-SSalt Lake
Haddock, Don C., g-SBloomington, Ida.
Hadley, James A., rSwan Lake
Haram Mas C. A. 1-1-
Hagan, Mrs. G.A., hkLogan
Hagan, Harold R., a-JSalt Lake
Hailstone, Jane Maria, c-1Logan
Hailstone, John Leland, a-3Logan
Hale, A. L., rStarvalley
Itale, A. L., I
Hale, Edward E., ae-J
Hale, George Ray, a-JSpanish Fork
Hale, George Ray, a-J
Hale, Lyman H., c-2Logan
Hale, Caral Amir 1., C 2.
Hale, Sarah Annie, ho-3Logan
Hale, Roy, r
Hale, Xenia LaVere, ho-1Logan
Hales, Ethel, ho-SoPark City
Hales, H. B., r
nates, fi. b., 1
Hales, Roy B., ma-1Provo
Halgren, Denzil, c-3Logan
Hall, Earl, ma-w
Hall, E. M., rRaymond, Ida.
Itali, D. Mi, C Naymond, Ida.
Hall, John C., crNephi
Halliday, Charles O., crGunnison
Halliday, Charles O., cr. Gunnison Halls, Mrs. M. J., hk. Logan
Hallock, E. S., g-SpSalt Lake
Halverson, Evelyn, c-1Helper
Traiverson, Everyn, C-1
Hammond, Andrew M., rProvidence
Hammond, Chesty, m
Hammond, Diantha, g-SpLogan
Hammond, Ervin Arthur, c-w
Hammond, Florid to F
Hammond, Floyd, ae-F. Logan Hammond, Robert L., cr. Marysville, Ida.
Hammond, Robert L., cr
Hansen, Mrs. Abe. hk
Hansen, Ada, ssTremonton
Hansen, Andrew, rLogan
Italiseli, Allulew, I
Hansen, Mrs. Anna, hkRichfield
Hansen, Arsena, g-1Salt Lake
Hansen, A. K., rRichfield
Hansen, Mrs. A. K., hk
Hangan Ramand I
Hansen, Bernard L., rProvidence
Hansen, Charles F., g-SLeeds
Hansen, C. H., r
Hansen, George D., rProvidence
Hansen, George P., rRichfield
Hansell, George 1, 1
Hansen, Henry L., a-SAmerican Fork

Hansen, Hortense L., ho-So	Salt Lake
Hansen, Hyrum, r	Richfield
Hansen, H. C., r	Trenton
Hansen, Mrs. H. C., hk	Logan
Hansen, H. P., r	
Hanson James "	Dichfold
Hansen, James, r	Distriction
Hansen, John, r	Richneid
Hansen, Joseph, r	Richfield
Hansen, J. S., r	Glenwood
Hansen, Leo A., ma-2	Logan
Hansen, L. H., r	Joseph
Hansen, Lorene, hk	Richfield
Hansen, Mary, hk	Richfield
Hansen, Melton G., a-1	Providence
Hansen, Mrs. Nettie, hk	I ogan
Hansen, Niels, r	Dishfield
Hansen, Pearl, ssSt. Jo	Kiciiileid
nansen, Pearl, SS	osepn, Ariz.
Hansen, Reuben, a-F	Hyrum
Hansen, Mrs. Reuben, hk	Logan
Hansen, Russell, r	Richfield
Hansen, Sarah, hk	Richfield
Hansen, Mrs. Sophia, hk	Glenwood
Hanset, Benjamin, r	Annabella
Hanson, Albert L., c-J	Logan
Hanson, Erlese P., a-2	Providence
Hanson, Nellie P., hk	. I Tovidence
Hanson, Neme P., nk	Logan
Hanson, P. O., r.	Paradise
Harding, George D., g-Sp	Logan
Harding, Phebe, ss	Willard
Harmon, Tessie, ho-So	Price
Harper, Osmond, r	Brigham
Harper, W. F., r	Smithfield
Harrington, Daniel T., a-w	Salt Lake
Harrington, Jennie, ho-Sp	Salt Lake
Harris, Aleck E., r	Dichmond
Harris, D. Earl, ss	Kiciiinond
Harris, Irvin H., c-1.	Logan
Harris, Irvin H., C-1	Logan
Harris, Martin, a-J	Monroe
Harris, S. R., r	Lewisville
Harris, Walter M., c-2	Almy, Wyo.
Harrison, Mrs. hk	Salina
Hartwigsen, Hyrum I., g-S	Logan
Hartwigsen, Mrs. H. J., hk	Logan
Haslam, James E., c-S	Wellsville
Hotah I W r	Koorsharem
Hatch, J. W., r	Zooda Cross
Ustah C T	Vonate von
Hatch, S. J., r.	Noorsharem
Hatch, Joseph E., g-3	Logan
Hawks, F. C., ss	Ogden
Hawley, A. R., r	Inverury
Hawley, Mrs. O. K., hk	Central
Hawley, Mrs. Violate, hk	Central
Haws, Arlington, a-1	Logan
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Haws, F. O., ssGarland
Haws, Vaughan, a-SoLogan
Haws, Wesley W., a-FLogan
Haws, Mrs., hk
naws, Mrs., nk
Hay, Thomas J., rRiverside
Hayball, Edith, g-SpLogan
Hayball, Lucille, ho-SpLogan
Hayes, H. M., r. Richfield Hayes, Junius J., r. Richfield
Haves, Junius I. r
Hays, Mrs. J. J., hk
Heaton, Lorene, ho-1Orderville
Heaten William Comell of
Heaton, William Carroll, a-1Orderville
Heinrich, George, c-F. Smithfield Heizer, Kate L., ss. Memphis
Heizer, Kate L., ssMemphis
Heldberg, Gustav O., a-3Logan
Heldberg, Richard E., a-2Logan
Helquist, Alf., rGlenwood
Hendricks, Mrs. A., hkLogan
Hendricks, B. A., rLewiston
IT-udicks, D. A., I
Hendricks, Chris, r
Hendricks, Mrs. G. B., hkLogan
Hendricks, Heber, rRichfield
Hendricks, Iris, ho-SpRichmond
Hendricks, Jessie, ss
Hendricks, John A., ae-3Logan
Hendricks, J. W., r
Hendricks Leland ma-1 Richmond
Hendricks, Lenoel, ma-wLogan
Hendricks, Lorin Asa, a-2
Hendricks, Lurea, ho-2
Transfer and the state of the s
Hendricks, M. A., rPocatello
Hendricks, Mariner W., a-FRichmond
Hendricks, Victor, a-2Lewiston
Hendricks, Vida Zelnora, c-2Logan
Hendricks Wolstein g-FRichmond
Hendrickson, Christian, rGlenwood
Hendrickson, C., r
Henrie, Arthur W., rRichfield
Henrie Arthur, r. Richfield
Henrie Arthur, r.RichfieldHenry, George E., ma-1.MarysvaleHeppler, F R., r.Venice
Hander F D - Venice
Heppler, Frank, Mrs. hk
reppier, Frank, Mrs. nk
Heppler, F. J., r
Heppler, C. M., r
Heppler, Julius, rRedmond
Heppler, J. E., rRichfield
Hermansen, C., Mrs. hk
Hermansen, J. M., rElsinore
Hermansen, S. C., r. Elsinor Hermanson, Mary, Mrs. hk. Richfield
Hermanson, Mary, Mrs. hk Richfield
Hess, George M., a-JFarmington
Hess, Oswell F. a-w. Farmington
Hess, Oswell F., a-w. Farmington Heward, N. P., r. Malad, Idaho
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Hickenlooper, C. H., rOgden
Hickenlooper, Frank, a-FOgden
Hickman, James, Mrs. hkLogan
Titinan, James, Mrs. Ik
Hickman, Joseph, g-Sp. Logan Hickson, Jack, r. Glenwood
Hickson, Jack, r
Higgson, N. Y., rHatch
Triggson, N. 1., 1
Higley, Erwin, c-SoFar West
Higley, Erwin, c-So. Far West Hilerson, H. E., r. Glenwood
Hill, Edith, g-SpLogan
Tim, Editi, g-Sp
Hill, Ethel, ss. Franklin, Idaho Hill, G. A., r. Venice
Hill, G. A., r
Hill, R. L., ssSpringville
Till, R. L., SSSpringvine
Hillman, Genevieve, g-JLogan
Hillman, Clarence L., ma-2Logan
Hillman, Eugene, a-1
Tillinian, Eugene, a-1maininoth
Hillyard, Inez, ssSmithfield
Hinckley, Charles O. ma-2
Hinckley, Charles O., ma-2Ogden Hirst, A. R., rNorth Logan
Tillst, A. K., I
Hirst, Hogen, rNorth Logan
Hobson, Ivan L., a-SOgden
Hobusch, Wilhelmina, ho-3
Trobusch, withelimia, no-3
Hodges, Eliza, ssGarden City
Hodges, Elizabeth, ss
Hodson, Edith, ho-4Ogden
riodson, Edith, no-4
Hoffman, E. E., rRichfield
Hoffman, R., Mrs. hkRichfield
II-man Nama 1-2
Hogan, Nana, ho-3Lewiston
Hogan, J. W., r
Hogan, J. W., r. Richfield Holden, Susie, ho-Jr. Logan Homer, R. K., r. Provo Holmgren, Edwin J., a-S. Bear River City, Idaho Holmgren, J. P., r. Bear River City, Idaho Hood, John, Mrs. hk. Richfield Hopkins, Ella, ss. Kanosh Hopkins, Flora, Mrs. hk. Joseph Hopkins, J. H., r. Logan Horn, Martha, hk. Richfield Horne, Florence, hk. Salina Horne, W. R., r. Richfield Horton, Joseph, r. Richfield Horton, Joseph, r. Richfield Horton, Joseph, r. Richfield Horton, Joseph, r. Richfield Houton, Thomas, r. Panguitch Houtz, Melpha, ss. Wellsville Houston, Thomas, r. Panguitch Houtz, Melpha, ss. Springville Hovey, Izene, c-So. Millville Hovey, Sidney, c-F. Millville Howes, Henry, r. Marysvale Howell, Alfred, ss. Fishhaven, Idaho Howell, Mary, g-J.
Hogan, J. W., r
Hogan, J. W., r
Hogan, J. W., r

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Huff, Elva, ho-SoLogan
Hughes, Gommer, rMalad
Hughes, Rowland, a-FLogan
Hulet, A. E., rPocatello
Hulet, Hope, ho-2Peterson
Hulet, Nephi, ma-1Peterson
Trainet, Nephil, ma-1
Hulme, Benjamin, ssBloomington, Idaho
Hulme, Charlotte, ssBloomington, Idaho
Humphreys, Asia, g-SoLogan
Humphreys, Caddie, g-SoLogan
Humphreys, Eddie F., c-wLogan
Humphreys, L. R., Mrs. mLogan
Humphreys, Ray B., a-F
Humphreys, Rhoda, ss
Humphreys, T. G., rJoseph
Hunsaker Israel Ir r Honeyville
Hunsaker, Israel, Jr. r
Hunsaker, Le Grande, a-S
Itunsaker, Le Grande, a-S
Hunsaker, Veda, ho-S
Hunter, David L., a-1 Logan Hurtig, John, r Newton
Turing, John, F
Hurd, Eliza, ss
Huttaball Corph of Language La
Hutteball, Sarah, ssLogan
Hyde, Beth, ho-3Logan
Hyde, Charles H., r
Hyde, Hattie, hkLogan
Hyde, Lyle, ho-1Logan
Hyde, William, r Logan Hyer, A. L., r Smithfield
Hurst, Charles T., g-G
Hurst, Charles 1., g-G
Hurst, Hugh, a-3Logan
Hutchings, Lawrence S. c-3
Ingram, Alonzo, cr
Isaacson, Carl, F
Isaacson, Lodena, ho-1
Isaacson, May, ho-JBrigham City
Izatt, Irene, ssLogan
Tyorson English a
Iverson, Enoch, r
Iverson, Neils, rRedmanIvie, Byron, rSalina
Ivie, C. M., r
Ivins, Stanley, a-J
Lying Florence as Solt Lake City
Ivins, Florence, ss
Jackson, Orlando, r
Jackson, Ren., ma-2Logan
Jacobson, Eunice, ssLogan
Jacques, Myrtle, ssLogan
James, Amasa E., a-1
James, Ted, rFort Wayne
yayıc

James, J. P., rParadise
Jameson, Peery, a-3Lewiston
Jameson, Peery, a-3. Lewiston Jorgensen, Ida, hk. Richfield
Jorgensen, Matilda, hk
Jeffs, Marie C-1Logan
Jeffery, Mrs. Nora, hkRichfield
Jenkins, Dale, C-1Logan
Jenks, Wilford, C-1Logan
Jenks, Willold, C-1
Jennings, D. S., ssLogan
Jensen, Andreas, r
Jensen, A., r
Jensen, Mrs. Alexander, hkRichfield
Jensen, C. B., rElsinore
Jensen, Mrs. C. N., hkLogan
Jensen, Mrs. Dan, hkRichfield
Jensen, D. P., rRichfield
Jensen, Doyle S., a-wNorth Logan
Jensen, Ethel, mLogan
Jensen, Irwin, rRichfield
Jensen, Fred, rProvidence
Jensen, Floyd S., rHuntsville
Jensen, H. E., ssEphriam
Jensen, Joseph, rSigurd
Jensen, Mrs. J. W., hkLogan
Jensen, Mrs. Junita, hk
Jensen, James, rRichfield
Jensen, Kisty, hk
Jenson, Leo G., C-1Logan
Jensen, Lewis, rRichfield
Jenson, Marie, hkLogan
Jensen, Martin, Jr., r
Jensen, Mary, ssBrigham City
Jensen, Norman, a-SBrigham City
Jenson, Olive, ho-SBrigham City
Jenson Orville hk
Jenson, Orville, hkLogan Jensen, Olif, rBear River City, Idaho
Jenson, Oloff, rBrigham City
Jenson, Peter, rGeneva
Jensen, R. N., rSigurd
Jensen, Thomas P., rGlenwood
Jensen, Vernal, r
Jensen, William Carl, a-1
Jeppsen, Imogene, ss
Jessen, Andrew, r
Jessen, Andrew, F
Jessen, Mrs. Louise, hk
Jessen, Myrl, hk
Jessen, Maggie, hkRichfield
Jessen, Millie, hkSigurd
Jessop, Geneieve, hkLogan
Jessop, J. L., rMillville
Jessop, Mrs. M., hkLogan
Jessop, Richard, rMillville
Johansen, Arthur, ma-1Morgan

Johansen, Leo, ma-SpHuntsville
Johnston, David, a-1
Johnson, A. A., ss
Johnson Austin ma-1 Holden
Johnson, Andrew, ss
Johnson, Alicew, SS
Johnson, Alvin, rRichmond
Johnson, C. W., crNephi
Johnson, Dora, hk.RichfieldJohnson, Dora, ho-Sp.Spring City
Iohnson, Dora, ho-SpSpring City
Johnson, Mrs. E. C., hkLogan
Johnson, Eric A., c-JLogan
Johnson, George A, c-JPocatello, Idaho
Johnson, George A, C-J
Johnson, Mrs. G. H., hkRichfield
Johnson, Hedve, ss
Johnson, Henry, rRichfield
Johnson, Helma, ssLogan
Johnson, James, rRichfield
Johnson, Mabel, ssLogan
Johnson, Mrs. J. E., hkLogan
Johnson, Mis. J. E., IIK.
Johnson, Lola, ho-3Spring City
Johnson, Lawrence O., c-1Logan
Johnson, Myrtle, ho-SLogan
Johnson, Mark, c-3Holden
Johnson, Minnie, ho-SpSmithfield
Johnson Peter r Logan
Johnson, Ruth, ho-F. Logan Johnson, Theo. R., ae-So. Grantsville
Johnson, Ruth, no-1
Johnson, Theo. R., ae-So
Johnson, Thaddeus, ma-1
John, Thomas P., rWest Portage
Jones, C. G., rProvidence
Iones, David W., g-FLogan
Jones, David W., g-F. Logan Jones, Cora, ho-J
Jones, E. T., a-SoLehi
Jones, Effie, ss
Jones, George M., r
Jones, George M., I
Jones, Hilda V., ssLogan
Jones, Joseph P., a-3Wellsville
Jones, Mrs. Hortense, hkRichfield
Jones, J. L., ae-SoMonroe
Jones, Reuben M., a-3Brigham City
Jones, Rose, ssBrigham City
Jones, Ruth, ss
Jones, Stella, ho-1Logan
Jones, Stena, no-1
Jones, W. L., ss
Jones, W. T., r
Jonsson, Elmer E., g-SLogan
Jonsson, Elmer E., g-SLoganJonsson, Reuben, a-2Logan
Jonsson, William O., crSalt Lake
Jorgensen, Moses, rLogan
Jouse, George, rElsinore
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Juel, Emar, ma-wSalt LakeJustesen, Osmon, g-SProvo
Justesen, Osinion, g-SProvo
Karren, George, rLewiston

Karren, Harold, ma-wLogan
Kartchner, Linda, ho-FSalt Lake City
Kartchner, O. K., c-2
Kraph Louis r
Krank, Louis, r Providence Kjar, Clinton, a-So. Manti
Kjali, Chittoli, a-50
Kellar, Claudius, a-1Logan
Kellar, Bessie E., g-SpLogan
Kellstrom, Herbert, rLogan
Kempton, Charles A., a-1Logan
Kent, J. C., rMillville
Kent, Riley, rLogan
Keral, Alfred, rLaketown
Kerr, Gerald, a-SLogan
Kerr, Coral, ssLogan
Kewley, Robert J., a-SLogan
Kresle, William, r
Kidzell, Stella L., ho-1Logan
Kidzen, Stella L., 10-1
Kidman, Lyman, ae-JPetersborough
Kimball, J. G., a-FSalt Lake City
Kimball, Mrs. Leo, hkLogan
King, Eliza, ho-3North Logan
Kirby, Gordon, a-SSalt Lake City
Kirkbride, J. W., cr. Smithfield Kirkbride, J. W., g-Sp. Smithfield
Kirkbride, J. W., g-SpSmithfield
Kirkbride, Lilas, g-FSmithfield
Kirkbride, Lilas, g-F. Smithfield Kirkman, John, r. Richfield
Knight, A., rSigurd
Kloepfer, Rachel, ho-3Logan
Kloepfer, F. J., rLogan
Knowlton, Burnham, c-1Farmington
Knowlton, Richard, ae-SpFarmington
Knowlton, Kichard, ae-Sp
Knowles, Ernest, rLogan
Knowles, Milton, rLogan
Kotter, A. F., rElsinore
Kotter, H. J., rElsinore
Kotter, Mrs. H. J., hkJoseph
Knudson, Eustave, ho-SBrigham City
Knudson, Joseph, rBrigham City
Knudson, I. Floyd, a-So
Knudson, Warren W., a-SBrigham City
Kyhl, John H., rRichfield
Kyle, Emma, hkRichfield
Lamb, Lavon G., a-2
Lamb, George Z., r
Lamb, John J., r
Lamb, John J., r
Lamb, S. E., r
Larsen, Ada, ssLogan
Larsen, Annie V., ho-2Garland
Larsen, Chris, rRichfield
Larsen, David, r
Larsen, Estella, ho-2Logan
Larsen, Howard W., a-2Logan
Larsen, Henry, rElsinore
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Larsen, James, rOgden
Larsen, James J. ma-1Logan
Larsen, James J., ma-1
Larsen, J. C., rLewiston
Larger I D
Larsen, J. R., rLogan
Larsen, Joseph, rRichfield
Larsen, Naomi, ho-1Logan
Larsen, Oliver, r
Larsen, Peter, r
Larsen, Parley, c-1Logan
Larsen, Ruth, ss
Larsen, R. V., ssSmithfield
Larsen, S. D., r
Larsen, S. D., r
Larsen, Victor R., c-1 Logan Lattimer, Dana, g-2. Salt Lake City
Lattimer, Dana, g-2Salt Lake City
Laub, G. W., r Logan Lauritzen, John I., g-S Moroni
Lauritzen, John I., g-S
Laurensen, E. J., c-SDowney, Ida.
Lay, J. C., r
Learned, Welthea, ssSalt Lake
Learnity Filmer and 1 Dishfield
Leavitt, Elmer, ma-1
Lee, Ethel, ss
Lee, F. E., r
Lee, Orvil L., r
Lee, R. E., r
Lee, Hazel, ho-F
Lee, Mar, ho-3
Lee, Bertel A., a-1
Lee, Lucille, ho-S
Lee, Mrs. J. C., hkLogan
Lee, Mrs. Orvil L., hkLogan
Lee, M. H., hkLogan
Lee, M. H., IIK.
Leigh, H. Webster, ae-SoCedar City
Leslie, Austin J., ma-1
Levett, J. G., r
Lewis, Grover, a-3Logan
Lewis, Grover, a-3. Logan Lewis, Lewie, ma-1. Logan
Lewis, T. C., a-SpLogan
Lewis, M. A., rLewiston
Lewis, Guy, r
Lindblad Victor I 2-1
Lindblad, Victor L., a-1. Logan Lindquist, Ariel, a-2. Logan
Linnartz, Emma, mLogan
Limit C, Emina, III
Litz, Oka, ho-1Lewiston
Litz, William E., c-FLewiston
Lloyd, Jonathan, rRichfield
Lloyd, Parley, r
Lloyd, Thomas W., rLogan
Lofthouse, Mrs. C. E., ho-wLogan
Lofthouse, C. E., a-wParadise
Longstroth, Lynn, r
Lott, Peter, r
Loosle, Reuben O., a-w
Loosie, Reuben O., a-wClarkston

Loosle, W. J., c-1
Lorentzen, Eden C., a-2Salina
Lorensen, G. Leon, ma-3Elsinore
Lovendale, Laura, cr
Low, Althea, ho-SpBeaver
Low, Arnold, a-SBeaver
Low George, r Richfield
Low, George, r. Richfield Low, Nina, hk. Richfield
Lowe, Morris D., a-So
Lowe, Silver, a-2Logan
Lowe, Sylvester, rSmithfield
Lucas, Emma, hkLogan
Luke, A. M., hkJunction
Luke, H. C., hkJunction
Luke, John T., rJunction
Luke, W. H., r
Lundberg, E., a-SpLogan
Lunderig, E., d-Sp
Lundstrom, Oscar, c-2. Logan Luscher, John, c-S. Brigham
Luscher, John, C-S
Lyman, Amy, ho-S. Lyle, Wesley B., a-2. Lynd, S., r. Lewiston McAllister, Charles K., c-1. Logan
Lyle, Wesley B., a-2
Lynd, S., rLewiston
McAllister, Charles R., c-1
McAnster, 1. L., a-3
McAlister, Mrs. J. A., hkLogan
McAlister, Wallace S., a-F. Logan McAlister, W. W., ss. Salt Lake
McAlister, W. W., ssSalt Lake
McBride, Brice, ae-JSalt Lake
McCracken, Joyce, crSmithfield
McCarty, Homer, rRichfield
McCarty, Mrs. Homer, hkRichfield
McClain, Marguerite, c-1Logan
McClellan, Scott, c-1Payson
McConkie, Oscar W., g-F
McCoy, W. J., g-SSalt Lake
McCullock, Dave, rLogan
McCulloch, Ella, c-1Logan
McCulloch, Lawrence, a-1Logan
McCulloch, Robert, rLogan
McCulloch, Robert, r. Logan McCulloch, Lillian, c-4. Logan
McCune, A. F., rLogan
McEwan, Ella, ho-FLogan
McEwan, Lula, ho-wLogan
McEwen, Ralph V., a-wLogan
McFarlane, I. M., r
McGregor, Charles, g-J
McKellys, E., rProvo
McKenzie, Katie, c-4Rupert, Ida.
McMillan, John B., rVenice
McMullen, Robert W., c-SLeeds
McMurdie Mrs Samuel hk
McMurdie, Samuel M., ma-w
McOmber, C. D., rLogan
incompet, o. b., i

McQueen, Joseph J., c-w	Preston Ida
Macfarlane, Menzies, a-S	Colt Toles
Macrariane, Menzies, a-S	Salt Lake
Madsen, Archer R., a-w	Morgan
Madsen, Ilta, ho-Sp	Bloomington, Ida.
Madsen, Howard P., a-So	
Madsen, Roy M., a-J	Gunnison
Madsen, S. J., r	Brigham City
Madsen, Vera, ho-S	Bloomington, Ida
Magleby, Ephraim, r	Monroe
Magleby, Mrs. M. A., hk	Monroe
Magicby, Mis. M. A., IIK	D:-1-C-14
Magleby, Parley, r	Richneid
Magleby, Rulon, r	Monroe
Major, Robert W., g-F	Ogden
Malan, R. S., ss. Manning, Clarence, c-F.	Ogden
Manning, Clarence, c-F	Hooper
Marlmquist, August, r	Vermilion
Marrell, John, r	Lunction
Martineau, Bryant, a-S	Togan
Martineau Claire he Se	Town
Martineau, Claire, ho-Sp. Martineau, Charles F., a-J.	Logan
Martineau, Charles F., a-J	Logan
Martineau, John E., r	Thatcher, Ida.
Mason, Ila, hk	Aurora
Mathisen, Anna, ho-S	Logan
Mathisen, Sophia, ho-Sp	Logan
Mathisen, William M., a-3.	Logan
Maughan, Armenia, g-Sp	Logan
Maughan, Barbara, ss	Wallswille
Maughan, D. H., r	737 - 11 11 11
Maughan, D. n., r	vvensvine
Maughan, Evan O., a-w	Logan
Maughan, Howard J., a-S	Logan
Maughan, Mrs. E. J., hk	Logan
Maughan, Mrs. Jessie, hk	Logan
Maughan, Lovina, ss	Logan
Maughan, E. Leroy, a-1	Logan
Maughan, M. O., ss	Logan
Maughan, Mabel, ss	Togan
Maughan, Mabel, SS	TT
Maughan, Ren H., a-2. Maughan, W. H., ss.	
Maughan, W. H., ss	Wellsville
Mau, Albert, a-3	Logan
Maw, Wilmer J., a-3	Plain City
Mayer, Clifford A., ae-So	Bingham
Mecham, Leland H., ma-2	Morgan
Meek Renjamin A 2-2	Logan
Meek, D. R., r.	Logan
Mostra Mrs. I bl-	Diabbald
Meeks, Mrs. J., hk	
Meyer, Gustav, a-1	Providence
Merrill, Alberto E., a-J	Smithfield
Merrill, Charles Leo, a-G	Richmond
Merrill, J. H., r	Blackfoot, Ida.
Merrill, L. E., r	Richmond
Merrill, Mrs. Laurin, hk	Logan
Meteer Harold r	
	Richfield
Meteer, Harold, r	Richfield

Miles, Jennie, ssParadise
Miles, Joan, ssSmithfield
Miles, Rae, ho-1Smithfield
Miller, Elmer, c-SProvo
Miller, Ervin, rRichfield
Miller, G. C., r
Miller, John, r
Miller, L., r
Miller, Minnie, ss
Miller, Sarah, hkLogan
Milicing Taylor Contact of the Conta
Milligan, James, cr
Milligan, James, rSmithfield
Milligan, Mrs. M., hk. Logan Minear, Virgil, g-S. Salt Lake
Minear, Virgil, g-5Salt Lake
Mitchell, Edgar, g-SoSalt Lake
Mohr, Anna, ho-FLogan
Mohr, Andrew J., g-3Logan
Mohr, Ernest, g-SLogan
Molyneau, A. R., a-wLogan
Molyneau, Earl, ma-wLogan
Monson, Mrs. A. D., hkLogan
Monson Farl ma-2 Richmond
Monson, Ezra P., c-2Franklin, Ida.
Monson, Leroy F., c-3Logan
Monson, V. L., ma-2Richmond
Monson, W. A., c-3Logan
Montrose, Charles E., c-2Logan
Moore Ambrose I ma-w I ogan
Moore, Ambrose J., ma-wLogan
Moore, Ambrose J., ma-wLogan Moore, George E., ma-3Moab
Moore, Ambrose J., ma-wLogan Moore, George E., ma-3Moab Moore, Harry L., c-1Sublet, Wyo.
Moore, Ambrose J., ma-wLoganMoore, George E., ma-3MoabMoore, Harry L., c-1Sublet, Wyo.Moore, James A., rJoseph
Moore, Ambrose J., ma-wLoganMoore, George E., ma-3MoabMoore, Harry L., c-1Sublet, Wyo.Moore, James A., rJosephMoosman Mrs. I. H., mBoulder
Moore, Ambrose J., ma-wLoganMoore, George E., ma-3MoabMoore, Harry L., c-1Sublet, Wyo.Moore, James A., rJosephMoosman, Mrs. J. H., mBoulderMoosman, J. H., ma-1Boulder
Moore, Ambrose J., ma-wLoganMoore, George E., ma-3
Moore, Ambrose J., ma-wLoganMoore, George E., ma-3.MoabMoore, Harry L., c-1.Sublet, Wyo.Moore, James A., r.JosephMoosman, Mrs. J. H., mBoulderMoosman, J. H., ma-1.BoulderMoosman, Mrs. Joseph H., hkLoganMore, A. J., r.Austin
Moore, Ambrose J., ma-w Logan Moore, George E., ma-3 Moab Moore, Harry L., c-1 Sublet, Wyo. Moore, James A., r. Joseph Moosman, Mrs. J. H., m Boulder Moosman, J. H., ma-1 Boulder Moosman, Mrs. Joseph H., hk Logan More, A. J., r Austin Morgan F. A. r St. Lohn
Moore, Ambrose J., ma-w Logan Moore, George E., ma-3 Moab Moore, Harry L., c-1 Sublet, Wyo. Moore, James A., r. Joseph Moosman, Mrs. J. H., m Boulder Moosman, J. H., ma-1 Boulder Moosman, Mrs. Joseph H., hk Logan More, A. J., r Austin Morgan F. A. r St. Lohn
Moore, Ambrose J., ma-w Logan Moore, George E., ma-3 Moab Moore, Harry L., c-1 Sublet, Wyo. Moore, James A., r Joseph Moosman, Mrs. J. H., m Boulder Moosman, J. H., ma-1 Boulder Moosman, Mrs. Joseph H., hk Logan More, A. J., r Austin Morgan, E. A., r St. John Morgan, James Jr., g-1 Logan Morgan, Kate, ho-F Logan
Moore, Ambrose J., ma-w Logan Moore, George E., ma-3. Moab Moore, Harry L., c-1. Sublet, Wyo. Moore, James A., r. Joseph Moosman, Mrs. J. H., m Boulder Moosman, J. H., ma-1 Boulder Moosman, Mrs. Joseph H., hk Logan More, A. J., r. Austin Morgan, E. A., r. St. John Morgan, James Jr., g-1 Logan Morgan, Kate, ho-F. Logan Morgan, Norman F., a-So. Salt Lake
Moore, Ambrose J., ma-w Logan Moore, George E., ma-3. Moab Moore, Harry L., c-1. Sublet, Wyo. Moore, James A., r. Joseph Moosman, Mrs. J. H., m Boulder Moosman, J. H., ma-1. Boulder Moosman, Mrs. Joseph H., hk Logan More, A. J., r. Austin Morgan, E. A., r. St. John Morgan, James Jr., g-1 Logan Morgan, Kate, ho-F Logan Morgan, Norman F., a-So Salt Lake Morrell, Della, g-S. Logan
Moore, Ambrose J., ma-wLoganMoore, George E., ma-3.MoabMoore, Harry L., c-1.Sublet, Wyo.Moore, James A., r.JosephMoosman, Mrs. J. H., mBoulderMoosman, J. H., ma-1.BoulderMoosman, Mrs. Joseph H., hkLoganMore, A. J., r.AustinMorgan, E. A., r.St. JohnMorgan, James Jr., g-1LoganMorgan, Kate, ho-FLoganMorgan, Norman F., a-SoSalt LakeMorrell, Della, g-S.LoganMorrell, Mrs. Erma, hkRichfield
Moore, Ambrose J., ma-wLoganMoore, George E., ma-3.MoabMoore, Harry L., c-1.Sublet, Wyo.Moore, James A., r.JosephMoosman, Mrs. J. H., m.BoulderMoosman, J. H., ma-1.BoulderMoosman, Mrs. Joseph H., hkLoganMore, A. J., r.AustinMorgan, E. A., r.St. JohnMorgan, James Jr., g-1.LoganMorgan, Kate, ho-F.LoganMorgan, Norman F., a-So.Salt LakeMorrell, Della, g-S.LoganMorrell, Mrs. Erma, hkRichfieldMorrell George r.Richfield
Moore, Ambrose J., ma-wLoganMoore, George E., ma-3MoabMoore, Harry L., c-1Sublet, Wyo.Moore, James A., rJosephMoosman, Mrs. J. H., mBoulderMoosman, J. H., ma-1BoulderMoosman, Mrs. Joseph H., hkLoganMore, A. J., rAustinMorgan, E. A., rSt. JohnMorgan, James Jr., g-1LoganMorgan, Kate, ho-FLoganMorgan, Norman F., a-SoSalt LakeMorrell, Della, g-SLoganMorrell, George, rRichfieldMorrell, Mrs. Erma, hkRichfieldMorrell, Mrs. M. D., hkLogan
Moore, Ambrose J., ma-wLoganMoore, George E., ma-3.MoabMoore, Harry L., c-1.Sublet, Wyo.Moore, James A., r.JosephMoosman, Mrs. J. H., mBoulderMoosman, J. H., ma-1.BoulderMoosman, Mrs. Joseph H., hkLoganMore, A. J., r.AustinMorgan, E. A., r.St. JohnMorgan, James Jr., g-1.LoganMorgan, Kate, ho-F.LoganMorgan, Norman F., a-So.Salt LakeMorrell, Della, g-S.LoganMorrell, George, r.RichfieldMorrell, Mrs. M. D., hkLoganMorrell, Winifred, g-J.Logan
Moore, Ambrose J., ma-wLoganMoore, George E., ma-3.MoabMoore, Harry L., c-1.Sublet, Wyo.Moore, James A., r.JosephMoosman, Mrs. J. H., mBoulderMoosman, J. H., ma-1.BoulderMoosman, Mrs. Joseph H., hkLoganMore, A. J., r.AustinMorgan, E. A., r.St. JohnMorgan, James Jr., g-1LoganMorgan, Kate, ho-FLoganMorrell, Della, g-SSalt LakeMorrell, Mrs. Erma, hkRichfieldMorrell, George, r.RichfieldMorrell, Mrs. M. D., hkLoganMorrell, Winifred, g-J.LoganMorrison, Alice, ho-So.Brigham City
Moore, Ambrose J., ma-wLoganMoore, George E., ma-3.MoabMoore, Harry L., c-1.Sublet, Wyo.Moore, James A., r.JosephMoosman, Mrs. J. H., mBoulderMoosman, J. H., ma-1.BoulderMoosman, Mrs. Joseph H., hkLoganMore, A. J., r.AustinMorgan, E. A., r.St. JohnMorgan, James Jr., g-1LoganMorgan, Kate, ho-FLoganMorgan, Norman F., a-So.Salt LakeMorrell, Della, g-S.LoganMorrell, George, r.RichfieldMorrell, Wrs. Erma, hkRichfieldMorrell, Winifred, g-JLoganMorrison, Alice, ho-So.Brigham CityMorrison, James B. r.Richfield
Moore, Ambrose J., ma-wLoganMoore, George E., ma-3.MoabMoore, Harry L., c-1.Sublet, Wyo.Moore, James A., r.JosephMoosman, Mrs. J. H., m.BoulderMoosman, J. H., ma-1.BoulderMoosman, Mrs. Joseph H., hkLoganMore, A. J., r.AustinMorgan, E. A., r.St. JohnMorgan, James Jr., g-1LoganMorgan, Kate, ho-F.LoganMorgan, Norman F., a-So.Salt LakeMorrell, Della, g-S.LoganMorrell, Mrs. Erma, hkRichfieldMorrell, George, r.RichfieldMorrell, Winifred, g-J.LoganMorrison, Alice, ho-So.Brigham CityMorrison, James B., r.RichfieldMorrison, Mrs. I. B., hkRichfield
Moore, Ambrose J., ma-w Logan Moore, George E., ma-3. Moab Moore, Harry L., c-1. Sublet, Wyo. Moore, James A., r. Joseph Moosman, Mrs. J. H., m. Boulder Moosman, Mrs. J. H., m. Boulder Moosman, Mrs. Joseph H., hk Logan More, A. J., r. Austin Morgan, E. A., r. St. John Morgan, James Jr., g-1 Logan Morgan, Norman F., a-So Salt Lake Morrell, Della, g-S. Logan Morrell, Mrs. Erma, hk Richfield Morrell, George, r. Richfield Morrell, Winifred, g-J. Logan Morrison, Alice, ho-So Brigham City Morrison, James B., r. Richfield Morrison, James B., r. Richfield Morrison, Mrs. J. B., hk Richfield Mortensen, George H. r. Joseph
Moore, Ambrose J., ma-w Moore, George E., ma-3. Moab Moore, Harry L., c-1. Moore, James A., r Moosman, Mrs. J. H., m Boulder Moosman, Mrs. Joseph H., hk Logan More, A. J., r Austin Morgan, E. A., r Morgan, James Jr., g-1 Logan Morgan, Norman F., a-So Salt Lake Morrell, Della, g-S. Logan Morrell, Mrs. Erma, hk Richfield Morrell, George, r Richfield Morrison, James B., r Richfield Morrison, Mrs. J. B., hk Richfield Mortensen, George H., r Joseph Mortensen, Joseph, r
Moore, Ambrose J., ma-w Moore, George E., ma-3. Moab Moore, Harry L., c-1. Moore, James A., r Moosman, Mrs. J. H., m Boulder Moosman, Mrs. Joseph H., hk Logan More, A. J., r Austin Morgan, E. A., r Morgan, James Jr., g-1 Logan Morgan, Norman F., a-So Salt Lake Morrell, Della, g-S. Logan Morrell, Mrs. Erma, hk Richfield Morrell, George, r Richfield Morrison, James B., r Richfield Morrison, Mrs. J. B., hk Richfield Mortensen, George H., r Joseph Mortensen, Joseph, r
Moore, Ambrose J., ma-w Moore, George E., ma-3. Moab Moore, Harry L., c-1. Moore, James A., r. Joseph Moosman, Mrs. J. H., m Moosman, Mrs. J. H., ma-1 Boulder Moosman, Mrs. Joseph H., hk Logan More, A. J., r. Austin Morgan, E. A., r. St. John Morgan, James Jr., g-1 Morgan, Norman F., a-So Salt Lake Morrell, Della, g-S. Logan Morrell, Mrs. Erma, hk Richfield Morrell, George, r. Richfield Morrell, Winifred, g-J. Logan Morrison, Alice, ho-So. Brigham City Morrison, James B., r. Richfield Morrison, Mrs. J. B., hk Richfield Mortensen, George H., r Joseph Mortensen, Joseph, r. Richfield Mortensen, Joseph, r Richfield Mortensen, Joseph, r Richfield Mortensen, Joseph, r Richfield Moses, Elmer W. a-2. Smithfield
Moore, Ambrose J., ma-w. Logan Moore, George E., ma-3. Moab Moore, Harry L., c-1. Sublet, Wyo. Moore, James A., r. Joseph Moosman, Mrs. J. H., m. Boulder Moosman, Mrs. J. H., ma-1 Boulder Moosman, Mrs. Joseph H., hk Logan More, A. J., r. Austin Morgan, E. A., r. St. John Morgan, James Jr., g-1 Logan Morgan, Norman F., a-So. Salt Lake Morrell, Della, g-S. Logan Morrell, Mrs. Erma, hk Richfield Morrell, George, r. Richfield Morrell, Wrs. M. D., hk Logan Morrell, Winifred, g-J. Logan Morrison, Alice, ho-So. Brigham City Morrison, James B., r. Richfield Morrison, James B., r. Richfield Mortensen, George H., r. Joseph Mortensen, George H., r. Richfield Mortensen, Joseph, r. Richfield Mortensen, Joseph, r. Richfield Mortensen, Joseph, r. Richfield Moses, Elmer W., a-2. Smithfield Mouritsen. Emma L. ho-So. Logan
Moore, Ambrose J., ma-w Moore, George E., ma-3. Moab Moore, Harry L., c-1. Moore, James A., r. Joseph Moosman, Mrs. J. H., m Moosman, Mrs. J. H., ma-1 Boulder Moosman, Mrs. Joseph H., hk Logan More, A. J., r. Austin Morgan, E. A., r. St. John Morgan, James Jr., g-1 Morgan, Norman F., a-So Salt Lake Morrell, Della, g-S. Logan Morrell, Mrs. Erma, hk Richfield Morrell, George, r. Richfield Morrell, Winifred, g-J. Logan Morrison, Alice, ho-So. Brigham City Morrison, James B., r. Richfield Morrison, Mrs. J. B., hk Richfield Mortensen, George H., r Joseph Mortensen, Joseph, r. Richfield Mortensen, Joseph, r Richfield Mortensen, Joseph, r Richfield Mortensen, Joseph, r Richfield Moses, Elmer W. a-2. Smithfield

Muir, Milton, r	T
Mult, Milton, r	Logan
Muir, William, r	Logan
Muir, William, r	.Woods Cross
Mullinier, Mrs., hk	Venice
Munk, Andrew, r	King
Mulik, Allulew, 1	King
Munk, Newell E., a-3	King
Munroe, Florence, g-S	Logan
Milray, D. P., ss	Wellsville
Murray, Milton W., a-1	Wellsville
Nalder, Byron J., a-2	I arrion
Naturel, Dylon J., a-2	Layton
Nash, Bartlett M., c-2	. Franklin, Ida.
Nash, Laura, c-2 Nyman, James, c-w	. Franklin, Ida.
Nyman, James, c-w	.North Logan
Nyman, Ernest L., a-1	North Logan
Nebeker, A., hk	T agan
Nebeker, A., IIK	Logan
Nebeker, Acel H., g-3	Logan
Nebeker, Mrs. A. D., hk	Richfield
Nebeker, A. D., r	Annabella
Nebeker, Mrs. Cardie, hk	Richfield
Mobeles Elies -	Annaballa
Nebeker, Elias, r	Annabella
Nebeker, Hazelton R., ma-1	Laketown
Nebeker, Hyrum, r	Laketown
Nebeker, John, r	Logan
Nebeker, Marie, m	Logan
Nobelet, Walle, III	A Lugan
Nebeker, Mrs., hk	Annabella
Nebeker, Phoebe A., g-S	Logan
Nelson, Anna, ho-3	ink Creek, Ida.
Nelson, Anthon, g-J	Honeyville
Nelson, Conrad, g-3	Honeyville
Notes Desid T - T	TTta-:11
Nelson, David J., c-J.	Huntsville
Nelson, Mrs. Eliza, hk	Richfield
Nelson, Emma, g-Sp. Nelson, Ephraim, r	.Brigham City
Nelson, Ephraim, r	Moroni
Nelson, Estella, ho-3	Logan
Nelson, Etta, ho-S	Logan
Neison, Etta, no-5	Logan
Nelson, Freda, g-Sp	.Brigham City
Nelson, G. A., a-J.	Logan
Nelson, George, r	Logan
Nelson, Hilda, g-Sp	Brigham City
Nelson, Irvin, cr	Morgan
Neison, Hivin, Cl	wiorgan
Nelson, Jennie, ss	Logan
Nelson, Jesse, a-2	Ferron
Nelson, Mrs. John r	Logan
Nelson, Luella, ho-3	Logan
Nelson, Lewis E., c-F	Logan
Neison, Lewis E., C-P.,	Logan
Nelson, Myra, c-1	Logan
Nelson, Myrtle, ho-3	North Logan
Nelson, P. M., r	Richmond
Nelson, Virgil H., ss	Sandy
37.4	
Nelson W A +	Sandy
Nelson, W. A., r	Sandy
Neeley, A. M., r	Sandy
Neeley, A. M., r	Sandy Riverdale Salt Lake
Neeley, A. M., r	Sandy Riverdale Salt Lake

Nesbitt, Levi K., a-F	337 - 11 11 -
November Hand	wellsville
Newman, Hazel, ss	Pleasant Grove
Nibley, Carlile, g-1	Logan
Nibley, Margaret, g-Sp.	Logan
Nielson, A. A., cr	Oaklev, Cal.
Nielson, Ames, r	Richfield
Nielson, Amos, hk	Richfield
Nielson, Mrs. Charles, hk	Richfield
Nielson, D. O., r	Hyrum
Nielson, Ernest, r.	Lienton
Nielson C W - E	
Nielson, G. W., c-F	Hyrum
Nielson, Hyrum J., a-2.	
Nielson, M. K., r	Richmond
Nielson, Martineus, r	Richfield
Nielson, W. C., r	Richfield
Nielson, Pearl C., ho-J	Logan
Nielson, Peter, r	Richfield
Nielson, Peter, r	Elsinore
Nielson, Regatta, hk	Logan
Nielson, Taylor, r	Richfield
Nielson, Vera E., ho-3	Toman
Nielson Walter -	Manuscrale
Nielson, Walter, r Nielson, Wilford E., a-So	Marysvale
Nielson, Willord E., a-So	
Nisson, C. W., c-3.	Logan
Nisson, W. O., cr	Washington
Noble, Rae, ss	Smithfield
Norman, Alta, ho-Sp	Logan
Norr, Hazel, c-1	Logan
Norr, Lorenzo, ma-1	Logan
Nowalki, Joseph D., c-1	Mackay Ida.
Nowalki, Fred, a-O	Salt Lake City
Nuhn, George C., a-w	Avon
Nuttall, Leonard G., ae-So	Blackfoot Ida
Observ Coording of	D di
Obray, Georgia, ss	
Oman, Mrs. A. G., hk	
Odell, Joseph, a-2	Logan
Ogden, Charles, r	Richheld
Ogden, Mrs. Dora, hk	Richfield
Ogden, Mrs. Ella P., hk	Richfield
Ogden, F. M., r	Richfield
Ogden, George, r	Richfield
Ogden, George W., r	Richfield
Ogden, Mrs. Georgie, hk	Richfield
Ogden, Heber, r	Richfield
Ogden, Mrs. Hannah M., hk	Richfield
Ogden, J. F., a-S	Pichfield
Ogden, J. H., r	Diahfald
Onder I I	Diab 6-14
Ogden, J. L., r	Richneld
Ogden, J. T., r	Richneld
Ogden, James, r	Richheld
Ogden, Joseph, r	Richfield
Ogden, Laura, ho-Sp	Richfield
Ogden, Lester, r	Richfield

Ogden, Leonard, rRicht	ield
Ogten, Debugger, 1.1.	1.1.1
Ogden, Mrs. Leonard, hkRicht	ieia
Ogden, Louise, ho-SpPleasant Gr	ove
Orden Mes Margis his	3014
Ogden, Mrs. Maggie, hkRicht	ieid
Ogden, Mrs. Mary, hkRicht	ield
Ogden, Miles, r	5.14
Ogden, Walter, rRicht	ield
Ogden, William, rRichf	ield
Onder Will	111
Ogden, Will, rRichf	leid
Oldham, Delia, ssPara	dise
Oldham, Mabel, ssPara	dica
Oldinami, Mabel, 55	1130
Olsen, Andrew F., a-1Ephr	ıam
Olsen, C. L., rLo	gan
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Olsen, Carl, Sr., rRichf	
Olsen, Daniel F., a-SoMur	rav
Olsen, D. L., rInver	
Olsen, D. L., I	ury
Olsen, Eliza L., ho-1North Lo	gan
Olsen, Esther, ho-FMur	raw
Of E 1	lay
Olsen, Frank, rKoosha	
Olsen, Hilda, ss	nım
Olsen, J. F., r	iom
Olsen, J. F., F	iaiii
Olsen, J. H., rEphr	iam
Olsen, J. H., r. Ephr Olsen, Joseph W., a-S. Sa Olsen, Lehi, r. Lo	ndv
O15cm, Joseph VV., a-5	nuy
Olsen, Lehi, rLo	gan
Olsen, Peter E., r	rem
Olsen, W. B., rInver	
Olsen, W. B., F	ury
Ostler, Ruby L., ho-SoSalt L	ake
Ostler, Lowell, c-FNe	nhi
Owen, Cyril B., a-FWellsv	-111
Owen, Cyril B., a-F	/ille
Owen, Stephen L., a-SoWill	ard
Osterloh, W. D., c-1	ohi
Osterion, W. D., C-1	Jenn
Oleson, Walter, rInver	ury
Ogelvie, C. E., rRichf	ield
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Ogelvie, William, rRichf	lela
Olliliamen, K. V., a-SpLo	gan
Olson, Mrs. Alma, hkLo	
Olson, Mrs. Alma, IIK	gan
Olson, Carl A., ma-1Ver	non
Olson, Carl C., c-1	lda
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Olson, Edith A., ho-1Ver	non
Olson, Evalyn, ssBrigham (City
Olson, Heber L., a-2Lo	man
Olson, Tebel L., a-2	gan
Olson, Leo, a-wLewis	ton
Olson, Nels Ira, a-2Ephr	iam
Olson, Orson, a-w	
Olson, Orson, a-wmon	roe
Olson, Pearl, c-3Log	gan
Osmond, Charles, g-FLo	o a n
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Osmond, Ruby H., ho-1Lo	gan
Oldroyd, Loren T., c-FRichf	ield.
Oldroyd, Mary, hkLog	~~~
Oldroyd, Mary, nk	gan
Orrock, Eugene, rRichfi	ield
Orrock, J. H., rRichfi	eld
D. 1.	-1.1
Orrock, Joseph, rRichfi	eld
Orrock, W. C. B., rRichfi	ield

Omnorla Mara W. C. D. 1.1-	D: 1 C 11
Orrock, Mrs. W. C. B., hk	Richneld
Olund, Ernest, c-Sp	Park City
Ormond, Henry, c-1	North Logan
Ostlund, Jeanette, ss	Logan
Ostlund, Lillian, m	Logan
Outzen, Parley, r	Richfield
Outzen, Parley, r Oyler, Charles, ma-1	Garland
Oyler, Joseph, a-F	Garland
Ovler Leo ma-3	Garland
Oyler, Leo, ma-3. Pack, Herbert J., g-S.	Woods Cross
Poolsand David D . Co	. Woods Cross
Packard, David R., a-So. Packard, Othie, g-Sp.	Springville
Packard, Otnie, g-Sp	Logan
Palfreyman, Jennie, ho-So	Springville
Pain, Mrs. Stella, hk	Aurora
Palmer, E. W., r	North Logan
Pain, Mrs. Stella, hk. Palmer, E. W., r. Palmer, Valentine W., c-2.	Logan
Park, Libbie, ho-F	Logan
Parke, W. C., r	Riverside
Parker, Mrs. A. M., hk	Richfield
Parker, Albert, r	Dodmond
Parker, Bryan, r	
Daulan Man Tarta 11-	Richneid
Parker, Mrs. Ireta, hk	Joseph
Parker, J. A., r	Joseph
Parker, J. F., r	Joseph
Parker, Lyman, r	Redmond
Parks, Mrs. Clara, hk	Richfield
Parkinson, E. Benson, c-S	Logan
Parkinson, Karnay B., ho-1	Logan
Parsons, A. S., r	Koorsharem
Partington, Alma, r	
Parrish, Afton Leone, ho-J	Conterville
Parry, Gronway R., a-J	Call Tala
Daniel C. D.	Sait Lake
Parry, G. R., r	Elsinore
Peterson, Edith, ho-F	Logan
Peterson, Edna L., c-Sp	Smithheld
Peterson, George, r	Joseph
Peterson, Mrs. H. H., hk	Richfield
Peterson, Mrs. Hannah, hk	
Peterson, H. C., r	Logan
Peterson, Harold, g-3	Logan
Peterson, Heber, r	Richfield
Peterson, Henry, r	
Peterson, Herman, r	Dichfield
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Peterson, Hugh C., g-F	Logan
Peterson, James, r	Joseph
Peterson, James M., r	Richheld
Peterson, Mrs. J. M., hk	Richheld
Peterson, John F., c-w	Moab
Peterson, John H., a-S	Smithfield
Peterson, Joseph, r	Richfield
Peterson, Joseph F., r	Redmond
Peterson, I. C., r	Logan
Peterson, Mrs. J. O., hk	Logan
1 etelson, M13. J. O., IIK	Logaii

Peterson, La Voyle, ho-2Logan	
Peterson, Lena, hkRichfield	
Peterson, Mrs. Lovina, hkLogan	
Peterson, Leslie, rLogan	
Peterson, L. P., rLogan	
Peterson, Lillie, crSmithfield	
Peterson, Lorenzo, r	
Peterson, Mrs. Marv. hk	
Peterson, Mrs. Mary, hk	
Peterson, Mattie O., mLogan	
Peterson, Merrill, ssBrigham	
Peterson, M., hkLogan	
Peterson, N. P., rRichfield	
Peterson, Nettie, g-JLogan	
Peterson, Othelia, g-SpLogan	
Peterson, P. C. B., rRichfield	
Peterson, Peter, rMendon	
Peterson, Reginald, rRichfield	
Peterson, Sarah, hk	
Peterson, Mrs. T., hkLogan	
Peterson Vernon R a-2 Logan	
Peterson, Vernon R., a-2. Logan Peterson, Verne, a-S. Richfield Peterson, Violet. cr. Smithfield	
Peterson Violet cr Smithfield	
Peterson, Mrs. W., hkLogan	
Peterson, W. L., ss	
Peterson, W. O., g-1	
Peterson, Anthon O., a-2	
Peterson, Brigham, rGlenwood	
Peterson, Caroline, ho-FLogan	
Peterson, Christian, rRichfield	
Peterson, C. E., r	
Peterson, Dan, r	
Peterson, Donna M., ho-1North Logan	
Peterson, E. A., rRiver Heights	
Peterson, Elizabeth, ssLogan	
Peterson, Elmer, r	
Peterson, Esther, ss	
Peterson, Hermense, ssProvo	
Peterson, Lillie, ssSmithfield	
Pett, Ella, ssBrigham	
Preston, Clayton, g-2Logan	
Picot, Alfred G., c-FLogan	
Price, Ezra Robert, a-JSalt Lake	
Price, May, ho-3Wellsville	
Price, Robert L., a-J. Wellsville Price, Sterling E., a-S. Provo	
Price, Sterling E., a-S	
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Parry, Gwen, ssSalt Lake	
Parry, Gwen, ssSalt Lake	
Parry, Gwen, ss	2
Parry, Gwen, ss	
Parry, Gwen, ss. Salt Lake Parry, Florence ss. Salt Lake Parry, J. M., r. Elsinore Parry, Vaughan, ss. Logan Paulsen, Christian, r. Richfield	
Parry, Gwen, ss. Salt Lake Parry, Florence ss. Salt Lake Parry, J. M., r. Elsinore Parry, Vaughan, ss. Logan Paulsen, Christian, r. Richfield	
Parry, Gwen, ss	

Payne, J. H., rGlenwood	
Prather, Carl, ma-4Logan	
Peacock, Byron C., ma-WEmery	
Peacock, Ella, ho-WEmery	
Peart, John K., a-1Farmington	
Pearson, Essie N.,C-1Logan	
Pence, Thurston, g-3Mountain Home Idaho	
Pendleton, I. H., r	
Pendleton, J. H. Mrs. hk. Glenwood Perkes, J. W., r. Hyde Park	
Perkes, J. W., r	
Perkes, R. A., r	
Perkes, R. A., r. Hyde Park Perkins, Richard L., ma-2. Monticello	
Peary, Foster, ae-SoLogan	l
Peary, Stephen C., a-SoLogan	t
Peters, Iretta, ssBrigham City	
Peters, Margaret, ssBrigham	
Peters, Laura E., ho-SoSalt Lake City	2
Pixton, Grace, ss	
Polson, James, rPocatello, Idaho	
Pond, B., r Lewiston Pond, Charles, r Lewiston	ı
Pond, Charles, rLewiston	
Pond, Charles Mrs. hkLogan	
Horace, R., ae-FLewiston	
Pond, Irene, g-SpLewiston	
Pond, Mary, ho-3Lewiston	
Pond, Stillman, a-2Lewiston	
Pond, William Leone, a-JLewiston	
Porter, B. P., rFranklin, Idaho	
Porter, Ina, ho-2Logan	
Porter, Thomas, ss. Logan Potter, Olive Mrs. hk. Richfield	
Potts, William Earl, a-1Silver City	
Poulsen, F. N., ss	
Poulson, Arthur, rRichfield	
Poulson, Celia Mrs. hk	
Poulson, Dora Mrs. hk	
Poulson, Ernest, r	
Poulson, F. N., g-JSalt Lake City	
Poulson Melton r	
Poulson, Melton, r	
Poulter, Carl, rLogan	
Poulton, Ralph, rProvo	
Powell, C. W., r	
Powell, Hartlett, a-SpSalt Lake City	
Powell, Ray H.rGlenwood	
Prosser, W. D., gSalt Lake	
Prunty, Russell C., ma-W	
Pugmire Elizabeth ss. St. Charles Idaho	
Quayle, William L., g-G. Logan Quinney, Joseph Mrs. hk. Logan	
Quinney, Joseph Mrs. hkLogan	
Ralph, E. T., ss. Logan Ralph, L. T., c-2. Logan	
Ralph, L. T., c-2Logan	
Ramsay, James, rRichfield	

Raymond, Loila, ssSmithfield
Rasmussen, A. P., r
Rasinussen, A. I., 1
Rasmussen, George, rRichfield
Rasmussen, James, ma-1Roosevelt
Rasmussen, Joseph, r
Pasmussen Sarah hk Richfield
Rashitaseth, Salah, Ika
Rauzenberger, John, rProvidence
Rawlings, W. S., g-Sp. Salt Lake City Raymond, Moselle, c-4. Smithfield
Raymond, Moselle, c-4Smithfield
Reader, J. F., r
Redd, Alta, ho-2
Redd, Arta, 10-2
Redd, Hortense, ho-1Monticello
Redd, John W., a-2. Monticello Redd, Margaret, g-So. Monticello
Redd. Margaret g-So
Reed, Harry S., a-SOgden
Rees, Mary K., ho-SpLogan
Rees, Mary K., no-sp
Reese, A. J., rBenson
Reese, A. V., rBenson
Reese, Charles, rBenson
Reese, Charles W., a-SCoalville
Reese, Charles W., a-5
Reese, James, rSmithfield
Reese, John K., a-1Kaysville
Reese, Naomi, g-SpLogan
Reese, R. O., rBenson
Description Description
Reese, Sarah, ho-2Benson
Reese, W. G., r
Reese, W. Grover, a-3King
Reid, Edward, ae-SoLogan
Reid, Sidney, ma-w
D'illa Farlan C'
Reilly, Evelyn, g-SpSalt Lake City
Reynolds, D. J., r
Reynolds, Katie, ho-Sp
Rich, Abel S., a-SBrigham City
Rich, Juanita, ss
Rich, Juanita, SS
Rich, George Q., c-1Logan
Rich, W. L., r
Richards, Alta, c-3Logan
Richards, Annie D., ho-JSalt Lake City
Richards, Burt L., g-SLogan
Richards, Burt L., g-5Logan
Richards, C. P., rLogan
Richards, Carrie, g-F. Logan Richards, E. F., r. Farmington
Richards F. F. r. Farmington
Richards, H. L., rBrigham City
Richards, II. D., I
Richins, John, rVenice
Richardson, Ivy, g-J. Logan Richardson, Jacob Z., g-F. Logan Richardson, Lester A., a-S. Ogden
Richardson, Iacob Z., g-FLogan
Richardson Tester A 2-S
Rick, P. M., hk
Rick, I. M., IIK Elsinore
Rickenbaugh, Jesse, rGlenwood
Rickenbaugh, Jesse, r. Glenwood Rigley, Parley, c-3. Newton
Rigley, Hyrum Y., r., Providence
Rigley, Hyrum Y., r
Dian C T
Riser, S. T., rLewiston

Riter, Levi R., a-1	Logan
Riter, S. W., c-2	North Logan
Ritter, Maggie, hk	Logan
Rhodes, Vernon M., a-2	Corland
Defendes, verifor iv., a-2	Gariand
Roberts, Artie A., ma-1	
Roberts, Herbert, r	Annabella
Roberts, K. E., r	Annabella
Roberts, Rose, hk	Richfield
Debaits Walter "	
Roberts, Walter, r	Monroe
Robertson, Gerald G., ma-2	Blacktoot, Ida.
Robinson, Julian R., a-2	Richmond
Rogers, Ruth B., ho-1	Logan
Rollins, Clem R., r	Lawiston
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Rollins, William, r	. Cardston, Canada
Romney, George J., r	Smithfield
Rose, Eva E., ho-1	Logan
Rose, G. B., ss	Logan
Pose Kate M. he 2	Logan
Rose, Kate M., ho-2	Logan
Rose, Raymond D., c-2. Roskelley, J., a-3.	North Logan
Roskelley, J., a-3	Smithfield
Roskellev. Maude H., cr	Smithfield
Roskelley, Richard B., c-3	Smithfield
D have Alicia - C-	Duinham Cita
Rosenbaum, Alicia, c-Sp	Brigham City
Rosengreen, E. J., ho-1	Logan
Rosengreen, Hannah, hk	Logan
Rosengreen, N., hk	Logan
Rosengreen, Ruth, ho-2	Logan
Ross, John H., r	Dishfald
Ross, John H., F	
Ross, Marie, ss	Salt Lake
Ross, Margaret, hk	Richfield
Ross, R. F., r	
Rowe, Clara S., ho-2	Logan
Rowe, Ross T., a-So	Canada Faul
Nowe, Ross 1., a-50	Spanish Fork
Rowland, J. W., r	Logan
Rund, Mrs. George, hk	Logan
Salisbury, J. H., r	Logan
Salisbury, M. J., hk	Logan
Salisbury, Wm., r	Pichfield
C.1	C 1 11
Salmon, Ethel, ho-w	Coalville
Sampson, J. M., a-2	Mammoth
Sampson, Town, r	Glenwood
Sanburg, Brigham, r	Richfield
Sandall, J. H., r	Fleinore
Salitali, J. II., I	EISIIIOIE
Savage, A. A., r	
Saxer, Lucia, g-Sp	Logan
Saxer, Lucia, g-Sp	Logan
Sharp, David Jr., a-S	Logan
Sharp Emma co	Vornen
Sharp, Emma, ss	vernon
Sharp, John A., a-J	Vernon
Sharp, James, r	Deweyville
Shaw, Mrs. Carrie, hk	Richfield
Shaw, Mary, ho-So	
Shaw, Minnie, ss	Paradica
Diaw. Milling, SS	aradise

Shaw, Harry, a-2Paradise	e
Shaw, M. H., rRichmond	1
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Shaw, Oril, ssOgder	n
Shaw, Samuel Albert, a-wOgder	n
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Shaw, Mrs. W. D., hkLogar	n
Schaub, Mrs. K. C., hkLogat	n
Schaub, Lyman, rProvidence	
Schaub, Lyman, 1	G
Schaub, Margaret A., ho-2Logar	n
Smart, Georgia, ho-1Logar	n
Smart, Thomas L., a-2Roosevel	1
Sinart, Thomas L., a-2	τ
Spande, Mabel, ho-3Logar	n
Spande, Sybil, ho-1Logar	n
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Staker, J. B., rAnnabella	a
Staker, Mrs. J. B., hkAnnabella	a
Staker, Mrs. Mary, hkAnnabella	0
Staker, Mis. Mary, IIk	d
Standar, Alvin, rBear River City	y
Standley, Lucy, ssLogar	n
Standley Newsli r	**
Standley, Newell, rLogar	П
Staples, E. W., r	V
Staples I I r	_
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Staples, J. H., rInverury	У
Starland, Miss L., hkLogar	n
Starley, Claude, a-3Fillmore	0
Startey, Claude, a-5	C
Stratford, Lillie, ssBrigham City	y
Straw, Alta, ssSpringville	e
Seamons, J. W., cr	1-
Canada, J. W., C. 11	1
Seegmiller, Mrs. C., hkRichfield	a
Seegmiller, Clariton, rRichfield	d
Seegmiller, Irene, hkRichfield	d
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Seegmiller, Junius, rRichfield	d
Seegmiller, May S., hkRichfield	d
Seegmiller, Mattie, hkRichfield	1
Seegminer, Mattie, IIX	u
Seegmiller, R. H., rRichfield	d
Seegmiller, Mrs. Serinda, hkRichfield	d
Seegmiller, Mrs. W. H., hkRichfield	d
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Seegmiller, W. W., rKanal	D
Seegmiller, W. H., r	d
Seegmiller W A r	1
Seegminer, W. A., I	u
Sellers, A. M., rRichfield	d
Sellers, Joseph, rRichfield	d
Sells, Albert Edward, a-SoNeph	:
Sens, Albert Edward, a-50	11
Sessions, J. W., ss	ı.
Sevy. Blaine, a-1	h
Sevy, Mrs. R. W., hk	1
Sevy, Mis. R. W., IR	u
Sevy, Mrs. J. L., hkRichfield	d
Sevy, J. L., rRichfield	d
Sevy, R. W., rRichfield	u
Sevy, Thomas, rPanguitch	h
Sewage, A. A., r	n
Schweitzer, George L., a-SBingham	
Schweitzer, George L., a-SBingham	п
Shelley, Percy Norman, a-SpSalt Lake	e
Shepard, Leroy, a-w. Richmond Shepherd, Nathaniel T., g-Sp. Salt Lake	d
Shaphard Nothanial T. or So	u .
Salt Lake	e

Sherpy, Maud, g-SpLogan
Sherrick, H. E., r Delta
Spencer Charles R r
Spencer, Charles R., r. Logan Spencer, Frank, g-S. Salt Lake
Spencer, Frank, g-5Salt Lake
Spencer, George B., ma-1. Monticello Spencer, Mrs. Ruth, hk
Spencer, Mrs. Ruth, hkAurora
Stedman, D. J., a-SpLogan
Stearns, H. J., g-SpSalt Lake
Steams, II. J., g-Sp
Steed, Ezra, r
Steed, James J., rFarmington
Steiner, J. J., r
Stephensen, Willard E., rInverury
Stephens, Edwin W., a-S
Stephens, Edwin W., a-S Lake
Stevens, L. A., ssLogan
Stevensen, Mrs. Rachel, hkRichfield
Stewart, A. J., c-2Logan
Stewart, Ella, ho-SpOgden
Stewart, Eugene F., a-JLogan
Stewart, Eugene F., a-J
Stewart, Mrs. J. E., hkLogan
Stewart, George, a-STooele
Stewart, George, r
Stewart, John, r
Stewart Mrs Dobott m
Stewart, Mrs. Robert, III
Stewart, Thelma M., ho-1Logan
Stewart, Walter, c-2Logan
Swensen Olie r
Sylvester, Jane, hk
Shipley, Elizabeth, ss
Shipley, Enzabeth, SS
Shipley, H. G., r
Skinner, Joseph F., a-SSafford, Ariz.
Smith, Alonzo, rLogan
Smith, Arthur M., a-1Providence
Smith, Clifford F., c-3Smithfield
Smith Marion 1, 2
Smith, Marion, ho-3Logan
Smith, Mary Ross, c-1Logan
Smith, Olena W., c-1Logan
Smith, Priday, c-1Logan
Smith, Richard M., rLogan
Smith Day Frad a w
Smith, Ray Fred, a-w
Smith, Mrs. R. M., hkLogan
Smith, Ralph, g-1Logan
Smith, Raymond, a-JLogan
Smith, Rachel Irene, ho-1Logan
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Smith Very ho-2 Providence
Smith, Vega, ho-2Providence
Smith, David W., a-FSalt Lake
Smith, David W., a-F. Salt Lake Smith, Donald E., m. Logan
Smith, David W., a-F. Salt Lake Smith, Donald E., m. Logan Smith Ella hk
Smith, David W., a-F. Salt Lake Smith, Donald E., m. Logan Smith Ella hk
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Smith, David W., a-F.Salt LakeSmith, Donald E., mLoganSmith, Ella, hkLoganSmith, Edwin Stratford, g-FLoganSmith, Mrs. Effie A. ho-FLogan
Smith, David W., a-F.Salt LakeSmith, Donald E., mLoganSmith, Ella, hkLoganSmith, Edwin Stratford, g-FLoganSmith, Mrs. Effie A., ho-FLoganSmith, Frank S., crVernal
Smith, David W., a-F. Salt Lake Smith, Donald E., m. Logan Smith, Ella, hk. Logan Smith, Edwin Stratford, g-F. Smith, Mrs. Effic A., ho-F. Smith, Frank S., cr. Vernal Smith, Frank S. to Daniels, Ida.
Smith, David W., a-F. Salt Lake Smith, Donald E., m. Logan Smith, Ella, hk. Logan Smith, Edwin Stratford, g-F. Smith, Mrs. Effic A., ho-F. Smith, Frank S., cr. Vernal Smith, Frank S. to Daniels, Ida.
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Smith, Mrs. J. P., hk	Logan
Smith, J. O., r	East Milford
Smith, Mrs. L. M., hk	Logan
Carlot T and Caldan - Ca	T a
Smith, Lewis Calder, a-So	Logan
Smith, Leslie Albert, g-S	Logan
Smith, Leona, ho-Sp	Logan
Smith, LeGrand, c-3	Preston, Ida
Stines, John Ernest, g-2	Logan
Stilles, John Ernest, g-2	D: 1 C-11
Stillman, C. N., r	Richneld
Stillman, C. N., r	Providence
Sorensen, Alexander, r	
Sorensen, Andrew, r	Richfield
Carrage Elman	Claman
Sorensen, Elmer, r	Glenwood
Sorensen, Mrs. E. B., hk	Logan
Sorensen, C. I., a-J	Hyrum
Sorensen, John P., g-Sp	Logan
Sorensen, Jens, r	Involuter
Sorensen, James, r	Inverury
Sorensen, Mrs. L. W., hk	Logan
Sorensen Louis r	Invertiry
Sorensen, O. V., r	Clanmond
Sorensen, O. V., I	Glenwood
Sorensen, William, r	Glenwood
Scott, Ernest H., ss	Salt Lake
Scoroup, J. H., r	Salina
Scholes, Caroline, ss	Logon
Scholes, Caronne, Ss	Logan
Schock, W. H., r	
Shores Coorgo o H	
Shores, George, a-w	Lake
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Showell, Edith May, ho-1	Logan
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Showell, Edith May, ho-1. Showell, Madelyn V., ho-1. Showell, T. W., ma-2. Sjostrom, Joseph E., c-3. Sjostrom. Oscar. r.	Logan Logan .Showell (Box Elder Co.) LoganLogan River Heights
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Showell, Edith May, ho-1. Showell, Madelyn V., ho-1. Showell, T. W., ma-2. Sjostrom, Joseph E., c-3. Sjostrom, Oscar, r. Skougaard, Mrs. Charles, hk.	Logan Logan .Showell (Box Elder Co.) LoganLoganRiver HeightsRichfield
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Showell, Edith May, ho-1. Showell, Madelyn V., ho-1. Showell, T. W., ma-2. Sjostrom, Joseph E., c-3. Sjostrom, Oscar, r. Skougaard, Mrs. Charles, hk. Skougaard, James, r. Sloan, W. R., hk. Snow, Beatrice, ss. Snow, Joseph Homer, g-S. Snow. Emma. ss.	Logan Logan Logan Showell (Box Elder Co.) Logan River Heights Richfield Logan Logan Logan Logan Colonia Juarez, Mexico Kingston Teasdale
Showell, Edith May, ho-1. Showell, Madelyn V., ho-1. Showell, T. W., ma-2. Sjostrom, Joseph E., c-3. Sjostrom, Oscar, r. Skougaard, Mrs. Charles, hk. Skougaard, James, r. Sloan, W. R., hk. Snow, Beatrice, ss. Snow, Joseph Homer, g-S. Snow, Emma, ss. Snow, Willard, r. Stoddard, Lois, ss.	Logan Logan Logan Showell (Box Elder Co.) Logan River Heights Richfield Logan Colonia Juarez, Mexico Kingston Teasdale Redmond Colorado Springs, Colo.
Showell, Edith May, ho-1. Showell, Madelyn V., ho-1. Showell, T. W., ma-2. Sjostrom, Joseph E., c-3. Sjostrom, Oscar, r. Skougaard, Mrs. Charles, hk. Skougaard, James, r. Sloan, W. R., hk. Snow, Beatrice, ss. Snow, Joseph Homer, g-S. Snow, Emma, ss. Snow, Willard, r. Stoddard, Lois, ss. Summers. Edith. ho-1	Logan Logan Logan Showell (Box Elder Co.) Logan River Heights Richfield Richfield Logan Colonia Juarez, Mexico Kingston Teasdale Redmond Colorado Springs, Colo. Avon
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Showell, Edith May, ho-1. Showell, Madelyn V., ho-1. Showell, T. W., ma-2. Sjostrom, Joseph E., c-3. Sjostrom, Oscar, r. Skougaard, Mrs. Charles, hk. Skougaard, James, r. Sloan, W. R., hk. Snow, Beatrice, ss. Snow, Joseph Homer, g-S. Snow, Emma, ss. Snow, Willard, r. Stoddard, Lois, ss. Summers, Edith, ho-1. Sutton, Ralph V., ma-1. Shurtleff Alta E., ho-Sp.	Logan Logan Logan Showell (Box Elder Co.) Logan River Heights Richfield Logan Colonia Juarez, Mexico Kingston Teasdale Redmond Colorado Springs, Colo. Avon Paris, Ida.
Showell, Edith May, ho-1. Showell, Madelyn V., ho-1. Showell, T. W., ma-2. Sjostrom, Joseph E., c-3. Sjostrom, Oscar, r. Skougaard, Mrs. Charles, hk. Skougaard, James, r. Sloan, W. R., hk. Snow, Beatrice, ss. Snow, Joseph Homer, g-S. Snow, Emma, ss. Snow, Willard, r. Stoddard, Lois, ss. Summers, Edith, ho-1. Sutton, Ralph V., ma-1. Shurtleff Alta E., ho-Sp.	Logan Logan Logan Showell (Box Elder Co.) Logan River Heights Richfield Logan Colonia Juarez, Mexico Kingston Teasdale Redmond Colorado Springs, Colo. Avon Paris, Ida.
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Showell, Edith May, ho-1. Showell, Madelyn V., ho-1. Showell, T. W., ma-2. Sjostrom, Joseph E., c-3. Sjostrom, Oscar, r. Skougaard, Mrs. Charles, hk. Skougaard, James, r. Sloan, W. R., hk. Snow, Beatrice, ss. Snow, Joseph Homer, g-S. Snow, Emma, ss. Snow, Willard, r. Stoddard, Lois, ss. Summers, Edith, ho-1. Sutton, Ralph V., ma-1 Shurtleff, Alta E., ho-Sp. Shurtleff, Lorenzo, ae-F. Shurtleff. Wilford. c-3.	Logan Logan Logan Showell (Box Elder Co.) Logan River Heights Richfield Logan Logan Colonia Juarez, Mexico Kingston Teasdale Redmond Colorado Springs, Colo. Avon Paris, Ida. Logan Logan Ogden
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Showell, Edith May, ho-1. Showell, Madelyn V., ho-1. Showell, T. W., ma-2. Sjostrom, Joseph E., c-3. Sjostrom, Oscar, r. Skougaard, Mrs. Charles, hk. Skougaard, James, r. Sloan, W. R., hk. Snow, Beatrice, ss. Snow, Joseph Homer, g-S. Snow, Emma, ss. Snow, Willard, r. Stoddard, Lois, ss. Summers, Edith, ho-1. Sutton, Ralph V., ma-1. Shurtleff, Alta E., ho-Sp. Shurtleff, Lorenzo, ae-F. Shurtleff, Wilford, c-3. Smurthwaite, Florence, g-Sp.	Logan Logan Logan Showell (Box Elder Co.) Logan River Heights Richfield Richfield Logan Colonia Juarez, Mexico Kingston Teasdale Redmond Colorado Springs, Colo. Avon Paris, Ida. Logan Logan Ogden Logan
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Showell, Edith May, ho-1. Showell, Madelyn V., ho-1. Showell, T. W., ma-2. Sjostrom, Joseph E., c-3. Sjostrom, Oscar, r. Skougaard, Mrs. Charles, hk. Skougaard, James, r. Sloan, W. R., hk. Snow, Beatrice, ss. Snow, Joseph Homer, g-S. Snow, Emma, ss. Snow, Willard, r. Stoddard, Lois, ss. Summers, Edith, ho-1. Sutton, Ralph V., ma-1. Shurtleff, Alta E., ho-Sp. Shurtleff, Lorenzo, ae-F. Shurtleff, Wilford, c-3. Smurthwaite, Florence, g-Sp. Smurthwaite, Florence, g-Sp. Smurthwaite, Mrs. F., hk. Squires, G. W., a-Sp. Stucki, Alfred, a-S. Stucki, Herman W. a-S.	Logan Logan Logan Showell (Box Elder Co.) Logan River Heights Richfield Logan Colonia Juarez, Mexico Kingston Teasdale Redmond Colorado Springs, Colo. Avon Paris, Ida. Logan Logan Logan Logan Logan Santa Clara Santa Clara
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Tarbet, Florence, ssLogan
Tarbet, N. K., rLogan
Tarbet, N. K., r. Logan Tate, Edward, r. Marysvale
Taylor, Asael J., a-So
Taylor, D. M., ma-Sp
Taylor, Mrs. Fred G., hkLogan
Taylor, Leonard S., ae-F
Taylor, Mrs. Robert, hk
Thain, Aldyth, ho-3Logan
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Thairer, Alma, rLogan
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Terry, W. C., rRichfield
Timmins, Annie B., ho-3Smithfield
Timmins, W. Mont, a-3Smithfield
Tolman, A., r
Tompson, Earl, rRichfield
Tonks, George C., ma-2Morgan
Toombs, J. C., c-2
Toombs, Malvern H., a-2Logan
Torrie, Albert, a-w
Tholman, Mrs. Elizabeth, hkVermilion
Thomas, Alvin J., c-1Portage
Thomas, Carrie S., c-2
Thomas, Preston, a-JPlain City
Thomas, Winifred W., c-1Logan
Thomson, J. R., rRichmond
Thomson Olga m
Thomason, Olga, m. Logan Thoresen, Eliza, c-3. Logan
Thoreson, Hyrum, r
Thornley, R. T., rSmithfield
Thornley, William J., a-w
Thornock Luella ss
Thorne Verne c-1
Thorpe, Verne, c-1
Tuft, Hans, r
Tunks S V c-S Logan
Turner, A. J., r. Logan Tuttle, Edwin E., a-So
Tuttle, Edwin E., a-So

Tuttle, Leonard, r
Tuttle Lloyd a-So Manti
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Thurber, Oland, r
Thurston, Clarence, ma-2
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Wahlen, Julius O., ae-2Logan
Walker, Edith, hkRichfield
Walker, John Basil, a-SoSandy
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Walker, W. H., rLogan
Wall, Ellen, hkLogan
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Wallace, Lucille, hkLogan
Walsh, Bertie, ssFarmington
Walsh, Edith, ho-SoFarmington
Walton F D hk
Walton, E. D., hk. Logan Walton, Matilda, ho-Sp. Garfield
Walton, Matilda, no-SpGarneld
Wangsgard, Ernest, g-SpLogan
Wangsgard, Ione M., g-SLogan
Wangsgard, Louis B., a-SHuntsville
wangsgard, Louis D., a-3
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Warnick, Adolphus P., a-So
Washburn, Chlo, hkMonroe
Watkin, Clifford, ssMendon
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Webb, Effie, ho-FSt. George
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Webb, H. C., rRichmond
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Webster, Mozell, c-2Franklin, Ida.
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Weeks, Emina, ss
Weiler, Vera, ho-S
Weiler, Vera, ho-S. Salt Lake City Welch, Mrs. Effie, ho-Sp Paradise Wells, Arthur T., a-1 Salt Lake City Welsh, John, r. Paradise Welsh, Joseph P., a-S. Paradise
Weiler, Vera, ho-S. Welch, Mrs. Effie, ho-Sp. Wells, Arthur T., a-1 Welsh, John, r. Welsh, Joseph P., a-S. Welsh, Mrs. Joseph, hk. Logan
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Willings J. H., r	Riverside
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Williams, Hugh, a-So	Salt Lake City
Williams, Orson S., a-w	Mona
Williams, Orson S., a-w	Classification
Williams, Robert H., ma-2	Clyde, Ida.
Williams, William W., r	Peary, Ida.
Williams, William W., r	Richfield
Wilson, Jessie, ss	Hyrum
Wiles Islan D	D:-1.6-1.1
Wilson, John B., r	
Wilson, Leroy A., a-So	Sandy
Wilson, Mrs. N., hk	Logan
Wilson, Vanes T., ma-1	River Height's
Wilson, Walter R., cr	
Winters, Nina, ss	Ogden
White, Hattie, hk	Logan
White, Hettie, ss	Renver
White, John E., a-S	A
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Whitesides, Edwina, ho-So	Layton
Whitesides, M. W., r	Layton
Whitear Charles B ma-2	Peterson
Whitear, Frank Leslie, a-1	Deterson
William, Flank Lesne, a-1	reterson
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Whittle, J. A., r	Salmon Ida
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Woodland, Noah, ae-F	
Woodman, Mrs. A., hk	Logan
Woodruff Mrs H C ss	Harmington .
Woodside W Alton g-3	Logan
Woodside, W. Alton, g-3. Woodside, Charles S., c-So. Woodside, Jean R., ho-J. Woodside, Thomas C., c-1.	Toman
woodside, Charles S., c-So	Logan
Woodside, Jean R., ho-J	Logan
Woodside, Thomas C., c-1	Logan
Woodward, Garnet, r	Franklin Ida.
Woolf, Eva, c-So	T oran
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Worley Roy r	Downey Ida
Worley, William, r	T oran
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Worley, Mrs. William, hk. Worlton, J. F., g-Sp.	Logan
Worlton, J. F., g-Sp	Salt Lake City
Yates, Alice, ss	Brigham

AGRICULTURAL COLLEGE OF UTAH.

Young, A. G., rRichfield
Young, Mrs. Archie, hkRichfield
Young, Ernest T., g-SpLogan
Young F., hkKingston
Young, Florence, g-SpProvidence
Young, Mary S., hk
Young, R. D., r
Young, T. F., rKingston
Yonker, D. I., r
Yoshoka, K. T., r
Younker, Stanley W., a-2
Zollinger, LeVerne, c-SpProvidence
Zollinger, W. R., r
Zundell, Mrs. George, hkLogan

SUMMARY BY SCHOOLS.

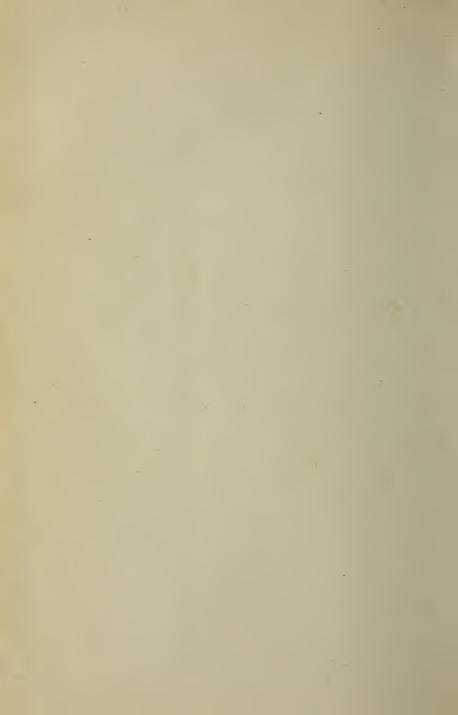
-	Agr.	Agr. Engnr.	Сошш.	Gen'l Science	Home Econom.	Mech. Arts	Specials (Mu-ic)	TOTAL	GRAND
COLLEGE COURSE. Graduates Seniors Juniors Sophomores Freshmen Specials	4 49 30 38 20 12	 1 5 8 9	10 10 8 17 5	3 35 10 7 18 38	15 13 21 14 32	1	21	8 110 68 82 78 110	
Total	153	24	50	111	95	2	21		456
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Total	154	5	112	39	94	84			488
Total. 944 Summer School Students 1912. 224 Correspondence Students 57 Roundup (Logan) 305 " (Richfield) 367—672 Housekeepers' Conference (Logan) 117 " (Richfield) 177—294									
Less names repeated								_	2,191
Total Registration									2,140

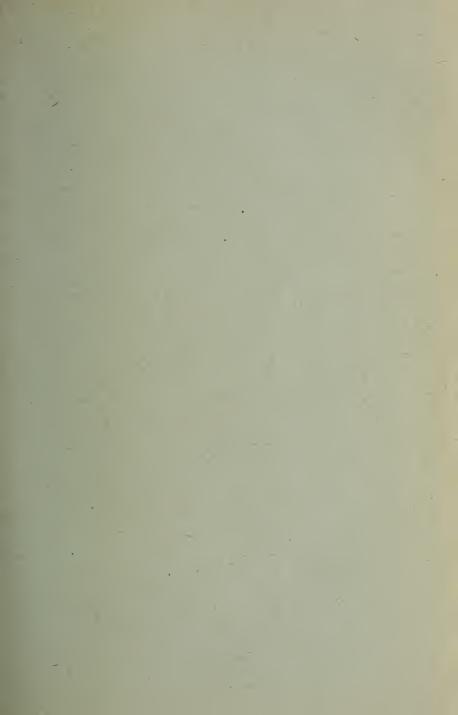
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Illustrated descriptive circulars dealing with the work of the various schools—Agriculture, Home Economics Commerce, and Mechanic Arts—and with student activities, are published

WRITE FOR COPIES

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COLLEGE BULLETINS

Issued Quarterly

Vol. 14, No. 1, July, 1914

CATALOGUE

OF THE

AGRICULTURAL COLLEGE OF UTAH

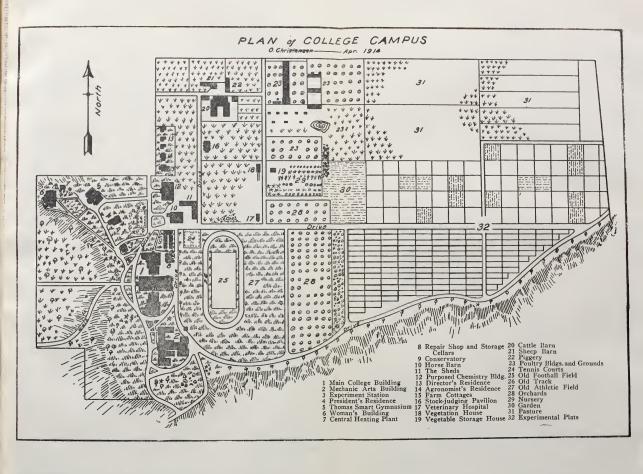
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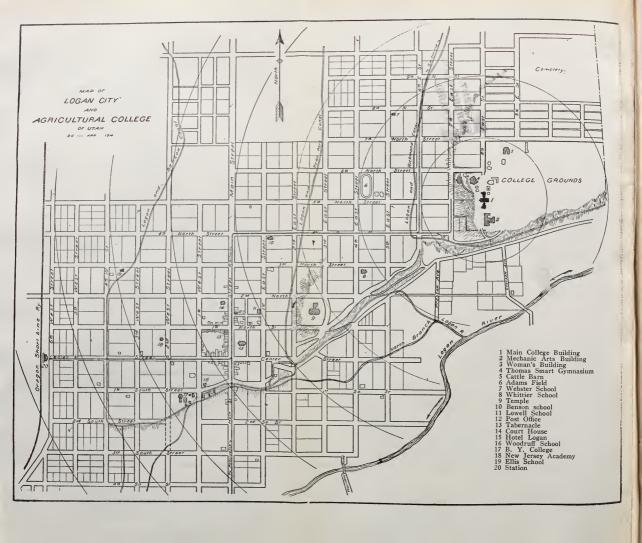
1914-1915

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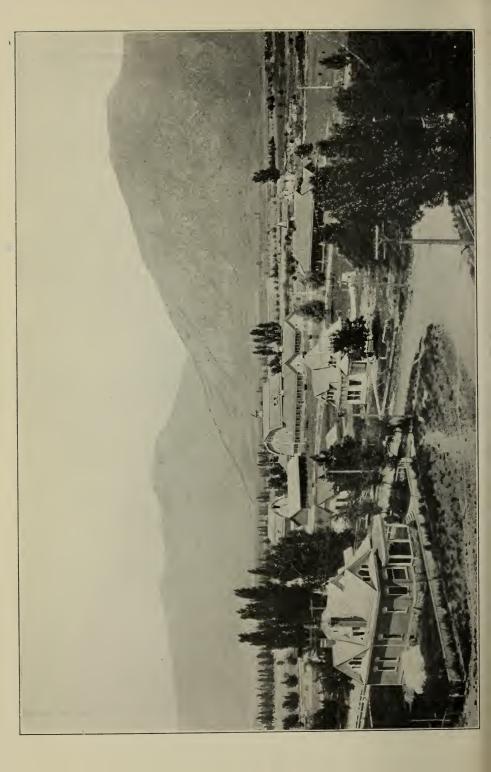








MAIN BUILDINGS



CATALOGUE

OF THE

AGRICULTURAL COLLEGE OF UTAH

FOR

1914-1915

With List of Students for 1913-1914

LOGAN, UTAH

Published by the College July, 1914

JANUARY	APRIL	JULY	OCTOBER
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College Calendar, 1914-1915

FIRST TERM

1914

September 22, Tuesday

September 23, Wednesday November 16, Monday November 26, Thursday December 7, Monday December 19, Saturday

Entrance examinations. Registration of former students, and of new students admitted on certificates. Classes organized. Agricultural Club Ball. Thanksgiving Day. Commercial Club Ball. Christmas recess begins.

1915

January 5, Tuesday January 11, Monday January 25, Monday January 25 to February 13

January 30, Saturday

Second term begins. Alumni Ball. College Play.

Exhibition of Arts and Crafts by Utah Artists. First term ends.

SECOND TERM

February 2, Tuesday February 12, Friday February 19, Friday

February 22, Monday February 22, Monday March 1, Monday

April 5, Monday April 15, Thursday April 21, Wednesday May 10, Monday May 18, Tuesday May 25, Tuesday

June 6, Sunday June 7, Monday June 7, Monday June 8, Tuesday

Second term begins. Lincoln's Birthday. Oratorical Contest for the Hendricks

medal. Washington's Birthday.

Military Ball.
Oratorical Contest for the medal given by The Sons of the American Revolution.

Junior Promenade.

Arbor Day.
"A" Day. May Festival. Senior Chapel.

Conferring of scholarship and other

Baccalaureate Sermon. Summer School begins.

Class Day.

Commencement and Alumni Ball.

ANNUAL FARMERS' ROUND-UP

U. A. C., LOGAN

Monday, January 18, to Saturday, January 30, 1915

AT RICHFIELD

Monday, January 4, to Saturday, January 16, 1915

AT CEDAR CITY

Monday, February 1, to Saturday, February 13, 1915

Board of Trustees

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David Mattson, John Dern, John C. Sharp, George T. Odell.
Auditor, J. W. N. Whitecotton.

Officers of Administration and Instruction*

The College Faculty

(Arranged in Groups in the Order of Seniority of Appointment)

JOHN ANDREAS WIDTSOE, A. M., Ph. D., LL. D. PRESIDENT

WILLARD SAMUEL LANGTON, A. M.†

Professor of Mathematics

ELMER DARWIN BALL, M. Sc., Ph. D. DIRECTOR, EXPERIMENT STATION AND DIRECTOR, SCHOOL OF AGRICULTURE

GEORGE WASHINGTON THATCHER, B. S. *Professor of Music*

GEORGE THOMAS, A. M., Ph. D. DIRECTOR, SCHOOL OF COMMERCE; REGISTRAR Professor of Economics

WILLIAM PETERSON, B. S. *Professor of Geology*

HYRUM JOHN FREDERICK, D. V. M. Professor of Veterinary Science

FRANK RUSSELL ARNOLD, A. M. Professor of Modern Languages

^{*}The College Council consists of the President, the Registrar, (ex-officio), all members of the Faculty of the rank of Professor, Associate Professor or Assistant Professor.

[†]On leave of absence.

JAMES CHRISTIAN HOGENSON, M. S. A. Agronomist, Extension Division

JOHN THOMAS CAINE, B. S. AUDITOR

EDWARD GAIGE TITUS, M. S., Sc. D. Professor of Zoology and Entomology

ROBERT STEWART, Ph. D.
ASSISTANT DIRECTOR, EXPERIMENT STATION
Professor of Chemistry

JOHN THOMAS CAINE III, M. S. A. ASSISTANT DIRECTOR, EXTENSION DIVISION Professor of Animal Husbandry

FRANKLIN LORENZO WEST, Ph. D. DIRECTOR, SCHOOL OF GENERAL SCIENCE Professor of Physics

CLAYTON TRYON TEETZEL, LL. B. Professor of Physical Education

LEON D. BATCHELOR, M. S., Ph. D. Professor of Horticulture

ELMER GEORGE PETERSON, A. M., Ph. D. DIRECTOR, EXTENSION DIVISION

FRANKLIN STEWART HARRIS, Ph. D. DIRECTOR, SCHOOL OF AGRICULTURAL ENGINEERING Professor of Agronomy

BLANCHE COOPER, B. S.*
Professor of Home Construction and Sanitation

JOSEPH EAMES GREAVES, M. S., Ph. D. Professor of Bacteriology and Physiological Chemistry

CALVIN FLETCHER, B. Pd. Professor of Applied Art

^{*}On leave of absence.

RAY BENEDICT WEST, C. E. Professor of Agricultural Engineering

ROBERT JAMES EVANS, Ph. D. State Leader in Farm Management

GEORGE RICHARD HILL, Ph. D. Professor of Botany

JAMES HENRY LINFORD, D. Did.
DIRECTOR OF SUMMER SCHOOL
Superintendent, Correspondence Study Department

ARTHUR HERBERT SAXER, M. S. Professor of Mathematics

N. ALVIN PEDERSEN, A. M. Professor of English

WILLIAM E. CARROLL, M. S., Ph. D. ASSISTANT DIRECTOR, SCHOOL OF AGRICULTURE Professor of Animal Husbandry

CHARLES WALTER PORTER, A. M.*
DIRECTOR, SCHOOL OF HOME ECONOMICS
Professor of Chemistry

GEORGE B. HENDRICKS, A. M. Professor of Finance and Banking

PARLEY ERASTUS PETERSON, A. B. Professor of Accounting

FRANKLIN D. DAINES, A. M. Professor of History

EUGENE SANTSCHI, JR., B. S., First Lieutenant, U. S. A. Professor of Military Science and Tactics

JONATHAN SOCKWELL POWELL
Associate Professor of Fine Art

^{*}On leave of absence.

RHODA BOWEN COOK, B. S. Assistant Professor of Domestic Art

ELIZABETH CHURCH SMITH, B. L. LIBRARIAN

AUGUST J. HANSEN, B. S. Assistant Professor of Mechanic Arts

JOHN L. COBURN, B. S. SECRETARY OF THE COLLEGE AND PURCHASING AGENT

BYRON ALDER, B. S. Assistant Professor of Poultry Husbandry

JOHN STEWART, B. S. Assistant Professor of Chemistry

EDWARD PARLEY PULLEY, B. S. Assistant Professor of Machine Work

AARON NEWEY, B. S. Assistant Professor of Forging

MARY E. JOHNSON, A. B. Assistant Professor of Physical Education for Women

LeGRANDE HUMPHERYS, B. S. Assistant Professor of Farm Machinery

GERTRUDE M. McCHEYNE, B. S. Assistant Professor of Home Economics, Extension Division

GEORGE BALLIF CAINE, A. M. Assistant Professor of Animal Husbandry

AGNES SAUNDERS, A. B., M. Pd. Assistant Professor of Foods and Dietetics

SARA HUNTSMAN, B. S. Instructor in English

CHARLOTTE KYLE, A. M. Instructor in English

EUGENIE LINNARTZ Instructor in Solfeggio

W. L. WALKER, B. S.* Instructor in Mathematics

C. T. HIRST, M. S. Instructor in Chemistry

WILLIAM SPICKER Instructor in Orchestra

NETTIE SLOAN Instructor in Piano

D. EARLE ROBINSON, B. S.* *Instructor in History*

CORAL KERR, B. S. Instructor in Domestic Arts

A. C. CARRINGTON President's Secretary

JOSEPH D. HOWELL Instructor in Stenography and Typewriting

JOSEPH PRESTON WELCH, B. S. Instructor in Farm Management

LORIN A. MERRILL, B. S. Instructor in Farm Management

ARCHIE D. EGBERT, D. V. M. Foreman in Poultry Husbandry

HOWARD JOHN MAUGHAN, B. S. Fellow in Agronomy

BERT LORIN RICHARDS, B. S. Instructor in Botany

^{*}On leave of absence.

GEORGE STEWART, B. S. Instructor in Agronomy

HERMAN WILFORD STUCKI, B. S. Farm Foreman

ROBERT H. STEWART, B. S. Instructor in Farm Management

LESLIE A. SMITH, B. S. Instructor in Bacteriology

HOWARD SCHWEITZER, B. S. Instructor in Horticulture

ELIZABETH UNDERWOOD · Instructor in Piano

ELLEN AGREN, B. S. Instructor in Foods and Dietetics

W. E. BROOKE, Ph. B. Instructor in Economics

H. R. HAGAN, B. S. Instructor in Entomology

M. L. HARRIS, B. S. Instructor in Farm Management

GRONWAY R. PARRY, B. S. Instructor in Zoology

JOHN A. SHARP, B. S. Fellow in Chemistry

PERCY N. SHELLEY, B. S. Instructor in Chemistry

WILBER E. THAIN, B. S. Instructor in Accounting

SAMUEL E. CLARK Instructor in Harmony

A. L. COOK Fellow in Botany

HATTIE SMITH Assistant in Library

S. L. BINGHAM Instructor in Dairying

DAN A. SWENSON Assistant in Woodwork

CHARLES BATT
Superintendent of Water, Heat, Sewerage, and Lighting Plants

RASMUS OLUF LARSEN Superintendent of Buildings

EMIL HANSEN
Superintendent of Grounds and Greenhouses

Experiment Station Staff

E. D. BALL, Ph. D. Director and Entomologist

H. J. FREDERICK, D. V. M. Veterinarian

ROBERT STEWART, Ph. D. Assistant Director and Chemist

E. G. TITUS, Sc. D. Entomologist

L. D. BATCHELOR, Ph. D. Horticulturist

F. S. HARRIS, Ph. D. Agronomist

F. L. WEST, Ph. D. Meteorologist

J. E. GREAVES, Ph. D. Bacteriologist

WM. PETERSON, B. S. Geologist

W. E. CARROLL, Ph. D. Animal Husbandman

BYRON ALDER, B. S. Poultryman

G. R. HILL, JR., Ph. D. Plant Pathologist

JOHN STEWART, B. S. Associate Chemist

C. T. HIRST, M. S. Assistant Chemist

H. R. HAGAN, B. S. Assistant Entomologist

A. D. ELLISON, B. S. Superintendent, Nephi Farm

ARCHIE EGBERT, D. V. M. Assistant Poultryman

H. W. STUCKI, B. S. Assistant Agronomist

H. B. SCHWEITZER, B. S. Assistant Horticulturist

H. J. MAUGHAN, B. S. Assistant Agronomist

LESLIE A. SMITH, B. S. Assistant Bacteriologist

B. L. RICHARDS, B. S. Assistant Plant Pathologist

A. B. BALLANTYNE, B. S. Superintendent, Southern Experiment Farm

AARON H. BRACKEN, B. S. Foreman, Nephi Farm

VIOLET M. GREENHALGH, B. S. Clerk

Extension Division Staff

John A. Widtsoe, A.M., Ph.D., LL.D				
STATE-WIDE DEMONSTRATORS				
John T. Caine III, M.S.A				
COUNTY DEMONSTRATORS				
FARM DEMONSTRATORS				
J. P. Welch, B. S Millard County R. H. Stewart, B.S. Carbon-Emery Counties Lorin A. Merrill, B.S. Sevier County M. L. Harris, B.S. Uintah Basin David Sharp, Jr., B.S. Iron County Heber J. Webb, B.S. Salt Lake County Beaver County Utah County				
HOME DEMONSTRATORS				
FROM FACULTY OF INTERIOR INSTRUCTION				
F. S. Harris, Ph.D. George Thomas, A.M., Ph.D. R. B. West, C.E. D. Ball, M.Sc., Ph.D. E. G. Titus, M.S., Sc.D. L. D. Batchelor, M.S., Ph.D. John A. Widtsoe, A.M., Ph.D., LL.D. Byron Alder, B.S. Hagricultural Engineering Entomology Home Economics Horticulture John A. Widtsoe, A.M., Ph.D., LL.D. Irrigation Byron Alder, B.S. Poultry Husbandry H. J. Frederick, D.V.M. Veterinary Science				

Standing Committees

1914-1915

The President of the College is ex officio a member of each standing committee.

- 1. High School.—Professors Wm. Peterson, P. E. Peterson, Miss Kerr.
- 2. Graduation.—Professors Arnold, Batchelor, Saxer, R. B. West, Cook.
- 3. College Publications.—Professors N. A. Pedersen, Arnold, Daines, Miss Huntsman, Miss Kyle.
- 4. Attendance and Scholarship.—Professors Thomas, Wm. Peterson, R. B. West, Santschi, Miss Kyle.
- 5. Student Affairs.—Professors Frederick, Fletcher, Linford, Powell, Miss Smith, Miss Kyle, Miss Kerr, Mr. Stewart.
- 6. Athletics.—Professors Teetzel, Santschi, Coburn, Miss Johnson.
- 7. Publicity.—Professors Hill, Alder, Miss Huntsman, Miss Saunders, Mr. Richards.
- 8. Exhibits.—Professors Titus, Fletcher, R. B. West, Hansen, Cook, Alder, Pulley.
- 9. Debating.—Professors Hendricks, Thomas, Titus, Pedersen, Daines, Mr. Brooke.
- 10. Entrance Examinatons.—Professors Greaves, Humpherys, Miss Agren.
- 11. Student Employment,—Professors George B. Caine, Saxer Powell, Humpherys, Newey, Johnson.
- 12. Student Body Organization.—Professors Thomas, Titus, Carroll.
- 13. Graduate Employment.—Mr. Carrington, Professors Ball, Thomas, Harris, F. L. West, Porter.

The Branch of the Agricultural College of Utah at Cedar City

JOHN ANDREAS WIDTSOE, A. M., Ph. D., LL. D. PRESIDENT

ROY F. HOMER, B. S. PRINCIPAL

MYRTLE DECKER, A. B. Instructor in English

ROBERT S. GARDNER, B. S. Instructor in Mathematics and Shopwork

PARLEY DALLEY, B. S. Instructor in Physics and Chemistry

ALBERT N. TOLLESTRUP Instructor in Music

ROBERT S. WRIGLEY, B. S. Instructor in Agronomy and Horticulture

AMY LEIGH, B. S.*
Instructor in Domestic Arts

RANDALL JONES, B. M. T. Instructor in Woodwork

RUFUS LEIGH, D. D. S. Instructor in Biological Science

DAVID SHARP, Jr., B. S. Instructor in Animal Husbandry

SARAH HUTTEBALLE Instructor in Domestic Art

GILBERT L. JANSON, B. S. Instructor in Commerce

GEORGE H. LUNT, A. B. Instructor in Mathematics and History

JOHN S. CHRISTENSEN, B. S. Instructor in Physical Education

EFFIE WARNICK, B. S. Instructor in Domestic Science

^{*}On leare of absence.

WOMAN'S BUILDING.



MECHANIC ARTS BUILDING.



THE THOMAS SMART GYMNASIUM

AGRICULTURAL COLLEGE OF UTAH

POLICY

The Agricultural College of Utah provides, in accordance with the spirit of the law under which it is organized, a liberal, thorough, and practical education. The two extremes in education, empiricism and the purely theoretical, are avoided, for the practical is based upon, and united with, the thoroughly scientific. In addition to the practical work of the different courses, students are thoroughly trained in the sciences, mathematics, history, English, art, modern languages, and other related subjects. While the importance of practical training is emphasized, the disciplinary value of education is kept constantly in view. The object is to inculcate habits of industry and thrift, of accuracy and reliability, and to foster all that makes for right living, good citizenship, and high efficiency.

Under this general policy, the special purpose of the Agricultural College of Utah is to be of service in the upbuilding of the State and the great West to which it belongs. The instruction in agriculture and agricultural engineering, therefore, deals with the special problems relating to the conquest of the great areas of unoccupied lands,—the proper use of the water supply, and the kinds of crop or live stock which in Utah may be made most profitable; that in mechanic arts, points out the most promising trades and teaches them so as to meet the needs of the State; that in commerce studies the undeveloped resources and the present commercial conditions of the State, and investigates the principles and methods to be applied in the commercial growth of Utah; that in home economics, house-keeping, teaches the women right

living, and economic independence from the point of view of prevailing Utah conditions.

The dominating spirit of the policy of the Agricultural College of Utah is to make the common work of the world—the work that most men and women must do—both profitable and pleasant. The motto of the College is, Labor is Life.

HISTORY

The Agricultural College of Utah was founded March 8th, 1888, when the Legislative Assembly accepted the terms of the national law passed by Congress on July 2nd, 1862. Under this Act of Congress, and the Enabling Act providing for the admission of Utah to the Union, 200,000 acres of land were granted to the State from the sale of which there should be established a perpetual fund, the interest to be used in maintaining the College.

Under the Hatch Act, approved in 1887, the State receives \$15,000 annually for the Experiment Station. Under the Adams Act of 1906, the State receives an additional \$15,000 annually for research work by the Experiment Station. Under the Morrill Act of 1890, amended by the Nelson Act of 1907, the State receives \$50,000 annually for instruction at the Agricultural College. Under the Lever Act, the State receives, in 1914, about \$13,000 which will increase for seven years, for agricultural extension work to be done by the Agricultural College.

These federal appropriations, together with the annual income from the land-grant fund, represent the income received from the general government. Since most of these funds must be used in accordance with the law for specific purposes, the institution is dependent on State appropriations for funds with which to provide additional instruction and for general maintenance. These needs have been generously met in the past by the Legislative Assemblies of the State. In 1888 the sum of \$25,000 was appropriated for buildings, and the county of Cache and the city of Logan gave one hundred acres of land on which to build the College. Since

that time the State has, from time to time, appropriated sufficient funds to erect and maintain all the buildings described in a later section, besides providing largely for instruction, experimentation, and extension work.

By a recent legislative action, the College receives annually 28.34 per cent. of 28 per cent. of the total tax revenue of the State, after deducting the revenue from 3.5 mills of the total State valuation, set aside for the support of the elementary and the high schools. The State, moreover, provides \$10,000 annually for extension purposes, \$15,000 for experimental work, and an increasing fund for farm and home demonstrations.

In September, 1890, the institution was first opened for the admission of students. Degree courses were offered in agriculture, domestic arts, civil engineering, mechanic arts, and commerce; a preparatory course and short courses in agriculture and engineering were also given. Since that time many improvements have been made in the courses: some have been abandoned; several special, practical, year and winter courses in commerce, mechanic arts, and home economics have been added; the standard of the college work has been raised. In 1903, the Board of Trustees established the School of Agriculture, the School of Home Economics, the School of Mechanic Arts, the School of Commerce, and the School of General Science, and in 1911 the School of Agricultural Engineering. The high school department of the College is being gradually eliminated. In 1914-1915 only the third and fourth years of high school work will be given, and in 1915-1916 no high school work will be given, except as provided for in the short practical course discussed on page 55.

In 1913, the Branch Normal School at Cedar City was made a branch of the Agricultural College and is so maintained.

GOVERNMENT

The government of the College is vested primarily in the Board of Trustees and, under their control, the four other administrative bodies,—the Directors' Council, the College Council, the

College Faculty, and the Staff of the Experiment Station. These, in their several capacities, determine the policy and maintain the efficiency of the institution.

THE BOARD OF TRUSTEES consists of thirteen members. Twelve are appointed by the Governor with the approval of the State Senate; the thirteenth is the Secretary of State who is *ex officio* a member. This Board assumes the legal responsibility of the institution, cares for its general interests, and directs its course by the enactment of all necessary by-laws and regulations. Vested in it is the power to establish professorships, to employ the instructing force and other officers of the College, and to formulate the general policy of the institution.

Between sessions, the power of the trustees rests with an executive committee, whose actions are referred to the Board for approval. In addition, there are committees, largely advisory, that deal with the general interests of the College.

THE DIRECTORS' COUNCIL consists of the President, the Directors of the various schools,—Agriculture, Home Economics, Agricultural Engineering, Commerce, Mechanic Arts, General Science, and Summer School—the Director of the Experiment Station, and the Director of the Extension Division. This body has immediate supervision of the instruction and discipline in all the various schools. It constitutes a permanent executive and administrative committee of the College Council and Faculty.

THE COLLEGE COUNCIL consists of the President of the College, the registrar, the professors, the associate professors, the assistant professors, and the librarian. All important questions of discipline and policy are decided by this body.

THE COLLEGE FACULTY includes the President, the professors, the associate professors, the assistant professors, the librarian, the instructors, and the assistants. As an administrative body it is concerned with the ordinary questions of methods and discipline and with various other matters pertaining to the general welfare of the College. Through its standing committees it is in intimate

contact with the student body and with the life and interests of the college community.

THE STANDING COMMITTEES have delegated to them the immediate direction of all the phases of college life. The conduct of the student in his college home and his regularity in performing college duties; the publications of the College and of the students; the interests of the students on the athletic field, in the amusement halls, and in their various organizations,— all these things are within the province of appropriate committees.

THE EXPERIMENT STATION STAFF consists of the President of the College, the Director of the Station, and the chiefs, with their assistants, of the departments of the station. This body is employed in the investigation of problems peculiar to agriculture in this part of the country, for the purpose of improving conditions and results. It is further responsible for the circulation, through private correspondence and regular bulletins, of such information as is of practical value to the farming communities.

THE STUDENTS. The College is maintained at public expense for the public good. The students, therefore, are under a peculiar obligation to perform faithfully all their duties to the State, the institution, and the community. Most important of these is an active interest in all that concerns the moral and intellectual welfare of the College. Regularity of attendance, faithful attention to studies, and exemplary personal conduct are insisted upon at all times, and the administrative bodies of the College are fully empowered to secure these results.

ADMISSION AND GRADUATION

ADMISSION. Students entering the college courses must show credits for four years' work in some reputable high school or present fourteen units of approved high school studies, subject to examination, for entrance to the freshman class. These may be selected from any subjects for which credit toward graduation is

given by an approved high school; but, before graduation from the College, the following high school credits must be secured:

Mathemati	cs	 	 . 2 units
Science		 	 . 3 units
Tota	1	 	 . 9 units

A unit is equivalent to five hours' work a week for one year.

Candidates for admission to advanced standing may be required to pass satisfactory examination in all the work of the preceding years, or to present satisfactory evidence that the work offered for admission is equivalent to the work for which they wish to substitute it.

Admission to High School. The high school department is gradually being eliminated. The first and second years of high school work will not be given in 1914-1915. Students entering the third year must show credits for two years of high school work.

Admission to the Practical Courses. Persons eighteen years or over, and those under eighteen who have had two years of high school work, are admitted without examination to the practical courses.

Special Students. Persons of mature years who desire to pursue a special line of study, are admitted as special students, provided they give evidence of ability to do the work desired. Special students may be graduated in any of the courses, whenever they complete the required work.

Registration. All students register at the beginning of the collegiate year for the work of the whole year. Changes in registration, and credit for work for which the student is not registered are allowed only by special permission of the College Council.

All regular students are classified as third and fourth year students in the High School or as freshmen, sophomore, junior, senior, or special students, in any of the courses leading to a degree

Graduation. The degree of Bachelor of Science, in Agriculture, Home Economics, Agricultural Engineering, Commerce, Mechanic Arts, or General Science is conferred upon those who complete the regular four-year course in any of those schools. To obtain a degree from 1914 to 1917, a student must have presented eleven units of high school work and accomplished 140 semester hours of college work. After 1917 he must show fourteen high school units and 120 college hours if he wishes a degree in any course. (See Schedule of Courses.)

Besides this the student must have been in attendance at least one school year preceding the conferring of the degree. He must have completed all the prescribed and the elective work in the four-year college schedules. He must have no grade lower than D in any subject used for graduation. Four fifths of his term grades must be C or better. He must have discharged all College fees. He must be recommended for graduation by his school faculty and receive the favorable vote of two thirds of the members of the College Council.

ORGANIZATION

The College is essentially a teaching institution. The instructional force and equipment are organized into departments, of coordinate authority, each of which represents a somewhat definite field of knowledge. All officers of instruction belong to one or another of these departments. One professor is designated head of each department, and he carries the administrative responsibility of the department. At present the College maintains the following departments:

DEPARTMENTS OF INSTRUCTION AND ADMINISTRATION

1. Accounting and Business 16. Home Construction and San-

	Practice		itation
2.	Agricultural Engineering	17.	Horticulture
3.	Agronomy	18.	Library Work
4.	Animal Husbandry	19.	Mathematics
5.	Art	20.	Mechanic Arts
6.	Bacteriology and Physiology	21.	Military Science and Tactics
7.	Botany .	22.	Modern Languages and
8.	Chemistry		Latin
9.	Domestic Art	23.	Music
10.	Economics and Sociology	24.	Physical Education
11.	English	25.	Physics and Farm Machinery
12.	Finance and Banking	26.	Political Science
13.	Foods and Dietetics	27.	Veterinary Science
	20000 ,4110		

The work of the College, as made possible by the above departments, falls into three distinct divisions: first, the experimental division, having for its object the discovery of new truth or the new application of established truth, for the advancement of the business of life; second, the College proper, giving instruction, especially to young people, on the home campus of the College; third, the Extension division, which carries instruction to the people who can not come to the College campus.

To accomplish this work the following administrative divisions exist, each of which draws upon the departments for its instructional or experimental force:

I. Experimentation

15. History

1. The Agricultural Experiment Station

- II. Instruction on the College campus,—the College Proper
 - 2. The School of Agriculture
 - 3. The School of Home Economics
 - 4. The School of Agricultural Engineering and Mechanic Arts
 - 5. The School of Commerce
 - 6. The School of General Science
 - 7. The Summer School
- III. Instruction beyond the College campus
 - 8. The Extension Division

THE STUDENT BODY ORGANIZATION AND STUDENT CLUBS

The Student Body Organization embraces all the students of the institution. Its prime object is to foster a proper spirit of college loyalty and to give the students practice in managing public affairs. It also secures dispatch and efficiency, as well as uniformity, in the administration of all matters pertaining to the entire student body and induces all students to participate in college activities. The organization provides each member with a maximum of proper athletic, theatrical, and social recreation at a minimum expense; viz., \$5 annually. This society has control, under faculty direction, of the following student activities:

- 1. Athletics, including all inter-class and intercollegiate contests in football, baseball, basketball, and track events. The Agricultural College is now a member of the Colorado Conference, a fact which will insure an interesting athletic programme.
- 2. Musicals, including all public performances of the Band, the Orchestra, Glee Club, Choir, String Quartette, and Mandolin and Guitar Club. During recent years the following operas have been presented: Babette, Marriage by Lantern Light, The Geisha, When Johnny Comes Marching Home, The Mikado.
- 3. Theatricals. Once or twice each season some dramatic performance is given. In the past, As You Like It, A Midsummer Night's Dream, She Stoops to Conquer, Pygmalion and Gal-

atea, The Climbers, The College Widow, The Amazons, Sweet Kitty Bellairs, The Rivals, The Rising of the Moon, Spreading the News, The Pot of Broth, and several minor productions, have been presented.

4. Debating and Public Speaking. Triangular debating arrangements have been made whereby the Agricultural College debates the University of Utah and the Brigham Young University every year on the same question. Those who win places on these teams receive a gold locket and are admitted to membership in the Agora, an honorary debating fraternity. Debates are also held by the different classes. The winners receive gold medals.

The annual oratorical contests for the Hendricks medal and that given by The Sons of the American Revolution maintain among the students an active interest in extemporaneous public speaking.

5. Student Publications. The students of the College, under the direction of the faculty of English, publish a weekly school paper, Student Life, which contains timely editorials, news items, announcements, reports, and forecasts of College activities.

The junior class publishes the College year book, named *The Buzzer*.

6. Lyceum Course. Each year the Student Body presents from four to six lecturers, readers, or musicians, of national or local repute. These entertainments are free to members.

Clubs. Not affiliated with the Student Body organization, but standing largely for the interests of the various schools, are the following clubs:

The Agricultural Club, which aims to promote interest in scientific agriculture. The club is effecting similar organizations in the high schools of the State. Special lectures, often illustrated, are given at intervals throughout the season.

The Agricultural Engineering Society which aims to stimulate the interest of students in the more practical side of the work embraced by the engineering courses. Men of repute are invited to

discuss questions before the society. It also aims to promote the interest of the students socially.

The Home Economics Club, which is composed of the students in domestic science and arts. The object of the club is to keep students in touch with movements in their field and to promote interest in home economics work. Many home economic societies in the high schools of the State are affiliated with this organization.

The Commercial Club, working to promote the interests of the Commercial School, to popularize the commercial courses, and to consider matters of interest not encountered in routine work. The club maintains an annual lecture course, given by prominent men throughout the State, on topics of special interest to the business man. All commercial students of college grade are eligible to membership.

The Mechanic Arts Association, designed to promote the social and intellectual interests of its members. All the teachers and all the regularly enrolled students of mechanic arts are eligible to membership. Monthly meetings are held throughout the year, at some of which lectures are given by specialists.

Gamma Sigma Delta, a chapter of the national honorary fraternity for students in agriculture. Members are chosen for scholarship, being selected from among the upper two fifths of the junior and the senior classes in agriculture.

The Agora, a fraternal organization open to men who have won places on the intercollegiate debating teams. Its purpose is to foster debating in the College and to keep alive among the old debaters an interest in such contests.

A number of fraternities, sororities, and other social organizations are also in successful operation.

STUDENT EXPENSES

Tuition is free. Utah students pay an annual entrance fee of \$5; students registering from other states pay \$25. The privileges

of the library and museums are free. In most of the laboratory and shop courses students are charged an incidental fee of \$1 a credit hour. The total amount varies in each case in accordance with the courses taken, ranging from \$2 to \$13 a year.

Every regular student must pay a Student Body fee of \$5 for which a ticket is issued admitting him to all the activities controlled by the Student Body Organization: athletic events—football, basketball, baseball, and track—dramatic and musical entertainments, socials, lectures, etc. This system has been found to be a great saving to the students and a most excellent means of fostering proper interest in student activities.

All male students, during three years of their course, are required to take military drill and must purchase a military uniform. To this rule there is no exception, unless physical disability or a very unusual reason exists. This uniform is obtained through the Secretary of the College at actual cost, about \$15, and has been found more serviceable and far more attractive in appearance than civilian clothes of the same price. With proper care one uniform will last two years.

All students in domestic science must provide themselves with two white aprons, two pairs of white half-sleeves, and two holders, six inches square.

All girls taking physical culture must provide themselves with a gymnasium suit and gymnasium shoes. These may be procured at the College. Cost, about \$4.

The fee charged for a diploma of graduation is \$5.

Students are held responsible for any injury done by them to the College property.

Good board and rooms can be obtained in private homes for \$3.50 to \$4.50 a week. By renting rooms and boarding themselves, students are able to reduce considerably the cost of room and board. The College maintains a cafeteria where, for a few cents, students may get a hot luncheon daily.

The cost of necessary books and stationery ranges from \$10 to \$15 a year.

BUILDINGS AND EQUIPMENT

The Agricultural College of Utah is in Logan, the county seat of Cache county, one of the most prosperous agricultural counties in the State. The city has a population, thrifty and progressive, of about 8,000; it is free from vice, quiet, orderly, clean, and generally attractive, with neat homes, good substantial public-buildings, electric lights, a sewer, and a water system. Cement pavements and an excellent street-car line extend from the station to the College.

The College is beautifully situated on a broad hill overlooking the city, one mile east of Main street, and commands a view of the entire valley and surrounding mountain ranges. The beauty of the location is perhaps unsurpassed by that of any other college. A few hundred yards to the south is the Logan river. A mile to the east is a magnificent mountain range and a picturesque canyon. In other directions are towns and farms covering the green surface of Cache valley, and distinctly visible through the clear atmosphere. The valley is a fertile, slightly uneven plain, 4,500 feet above sea level, about twelve by sixty miles in dimensions, almost entirely under cultivation and completely surrounded by the Wasatch mountains. It is one of the most attractive and healthful valleys in the West.

The College now has nearly thirty smaller and larger buildings, all modern, all well lighted, and well heated by a central heating plant, and all carefully planned to meet the purpose for which each was intended.

THE MAIN BUILDING, of brick and stone, is 360 feet long, 200 feet deep in the central part, and four stories high. It contains the large auditorium, seating about 1,500; the administrative offices; the library; and many class rooms and laboratories.

THE WOMAN'S BUILDING is a four-story brick building fifty by eighty feet, situated three minutes' distance from the Main building, on the north-west corner of the campus. Cement walks connect it with the other school buildings and with Main street. It is one of the largest and best equipped structures devoted entirely to domestic science and arts in the inter-mountain region. It has automatic elevator service from the locker room and laundry in the basement to the spacious rooms on the fourth floor. A large lecture room used for class work and public lectures, a small class room and a kitchen-laboratory equipped with gas for individual work, a library, and an office are on the first floor. The second kitchen-laboratory, equipped with electricity for individual work, a small kitchen, a dining room, a chemical and a research laboratory are on the second floor. The third floor, devoted entirely to the domestic arts, contains the office, millinery room, sewing, dressmaking, and fitting rooms with complete equipment. The fourth floor contains a rest room, class room, and a large room used for museum material.

The Thomas Smart Gymnasium, one of the finest and most complete college gymnasium in the Rocky mountain region, houses the department of physical education. It contains a main exercise hall, 114 by 70 feet, which is well lighted and ventilated. The steel work overhead gives attachment for the hanging apparatus, and the equipment is so arranged as to be quickly put in place or hoisted out of the way, leaving a clear floor space for large games or dances. Ten feet above the main floor is a running-track, a handball court, and a wrestling and boxing room.

The women's gymnasium occupies the south end of the building and has a floor space of 70 by 40 feet. On the north end of the building is a swimming pool, 60 by 24 feet, supplied with filtered water, affording superb opportunity for swimming and aquatic sports. In the center of the building are two large dressing rooms equipped with steel lockers, shower and tub baths, a steam room, and all the conveniences found in modern gymnasiums.

ATHLETIC FIELDS. An old athletic field and tennis courts, situated close to the gymnasium, afford opportunities for all forms

of athletic sports. The Adams field is the main athletic field, located one fourth mile west of the campus.

THE EXPERIMENT STATION BUILDING, a two-story brick structure 45 feet long and 35 feet wide, contains the offices of the station staff, a reading room, and a dark room for photographic work.

THE MECHANIC ARTS BUILDING is a two-story brick structure. It has a floor area of 40,000 square feet, containing the wood-working department, machine shop, forging rooms, foundry, carriage building rooms, mechanic arts museum, drafting rooms, blue-printing room, room for painting and staining, and class rooms.

This building is also the home of the departments of agricultural engineering and farm machinery, and contains laboratories specially adapted to this class of work. Its equipment consists of several gasoline engines of from two to fifteen horse-power, a horizontal steam engine of six horse-power, and a large collection of agricultural machinery. The testing laboratory contains a hundred-thousand-pounds testing machine and also a cement testing machine, both made by Riehle Brothers. The laboratory further contains transits, levels, tapes, leveling rods, range poles, and other apparatus used by students in surveying, irrigation, drainage, and road construction. The drawing rooms and shops of the Mechanic Arts department, with their complete equipment, are available for students in agricultural engineering.

The machine shop is equipped with a 15 H. P. motor, a 24 in. planer, two crank shapers, two speed lathes, six 14 in. engine lathes, a 36 in. radial drill, two universal milling machines, a universal tool and cutter grinder, emery wheels, power hack-saw, twenty machinist's vises with work bench, tool cabinet, tool room, case containing a supply of small tools for general use, and a variety of other equipment.

The drafting room contains thirty-five drawing tables, boards, model co-ordinate planes, filing case, and blue-printing facilities.

The forge shop contains thirty-two down-draft forges, each

equipped with a full set of tools, a drill press, a power hammer, and an emery wheel,—all driven by electric power.

The carriage shop contains four benches, each equipped with the necessary tools for carriage work.

A THREE-STORY CHEMISTRY BUILDING will be constructed next year which, when finished, will be occupied by the departments of chemistry, physics, and bacteriology.

The Barns and Stock Judging Pavilion are equipped with good representatives of the various breeds of cattle, horses, sheep, and hogs, most common in the western section. Approved methods of livestock management are practiced. The Stock Judging Pavilion, where the classes in stock judging are held, makes it possible to do judging in all kinds of weather.

In addition to this, a college creamery is maintained, where butter and cheese of the best quality are made, according to the latest methods.

THE POULTRY BUILDING is 230 feet by 25 feet, with yards 100 feet wide on each side. The building is divided into two sections: first, the brooder section, with a capacity for about one thousand chicks; second, the experimental section, with a capacity for over five hundred hens. This section is divided into thirty-two pens; it is shut off from the public and used for conducting experiments in poultry culture. The building is heated by a hot water system. In the front part are an office, a feed and weigh room, a store room, and a sleeping apartment.

A modern incubator cellar has recently been provided which is well equipped with the latest incubators of different makes, egg distributing and turning tables, pedigree hatching trays, hygrometers, thermometers, acetylene, and electric egg testers.

THE GREENHOUSES are equipped for laboratory instruction in the propagation of horticultural plants, and in the practice of floriculture and vegetable gardening. The many apple orchards in the close vicinity give exceptional opportunity to study orchard problems and conduct laboratory exercises in pruning, grafting, picking and packing, etc. THE VETERINARY HOSPITAL, a two-story stone and frame structure, 18 by 42 feet, containing a well-equipped dispensary, operating room, and stalls for patients, gives ample room for all the work in veterinary medicine at present offered by the College.

EQUIPMENT

The Bacteriological Laboratory is well equipped with modern apparatus for the work offered. Each student is provided with a high-power Leitz or Bausch and Laub microscope. Microscopes with triple nose-piece, fitted with 1-12 and 1-16 oil-immersion objectives, Abbe condenser, and rotary and mechanical stage, are used for identification work. The equipment includes an autoclave, hot-air and steam sterilizers, incubator, refrigerators, ærobic plate apparatus, anærobic tube apparatus, microtome, analytic balance, cages, permanent mounts, precision glassware, chemicals, stains, and culture media. To encourage more careful work, the students are provided with individual lockers.

The Chemical Laboratories are also well equipped for elementary and advanced work in chemistry. Several valuable collections of gums, oils, coloring matters, foods, etc., are important aids to the students in this department. The laboratories are fitted with water, gas, hoods, and other conveniences.

The Physical Laboratory Equipment is very complete, consisting of all the necessary pieces of apparatus for class demonstration: a set of apparatus for elementary laboratory work, sufficient for fifteen students working on the same experiment; all pieces required for advanced work in mechanics, heat, electricity magnetism, light, including high grade electrical measuring instruments of all kinds, standard and variable resistances, induction coils, dynamos, motors and rectifiers, heliostat, interferometer, spectrometers, polariscope, thermostat, finest of calorimeters, Beckman thermometers, thermocouples, cathetometer, Atwood machine, sensitive chemical balances, thermograph, barograph, anemometer, etc. Gas, water, compressed air, and con-

tinuous and alternating current electrical power are available.

The Physiological Laboratory, located on the first floor, in the south wing of the Main building, is supplied with skeletons both articulated and disarticulated, many enlarged models of organs, a papier mache manikin, and complete slides of all the tissues. Students have access to a set of vertebrate skeletons and to an excellent collection of native animals. The necessary reagents for physiological experimentation are at hand.

The Zoological and Entomological Laboratory is equipped with water and gas and has for use in laboratory work improved instruments, embryological models, skeletons from the vertebrate groups, collections of mounted birds, mammals, reptiles, and fishes; also alcoholic material in many groups. The department has economic and systematic collections of insects, which, with the private collections and libraries of the professors, are accessible to the students taking work in the department.

The Botanical and Plant Pathological Laboratory contains a large herbarium of flowering plants, ferns, horsetails, fungi, and algae for use in systematic botany and in the study of plant diseases. The laboratory is well equipped to do general work in all courses offered, as well as in research work. The apparatus consists of microtomes, both rotary and free hand, compound microscopes, dissecting microscopes, autoclave, Arnold sterilizer, a hotair oven, an electrically equipped paraffin bath, balances, clinostat, culture room, together with glassware, reagents, and stains necessary to carry on successful botanical work. The department maintains a good working library in connection with the laboratory.

The Department of Agronomy is provided with a large collection of agricultural plants, seeds, and soils, representing the main crops and types of soil of the inter-mountain region. The College farms are equipped with the best and latest implements and machinery for carrying on work scientifically. They are divided, for illustrative and experimental purposes, into numerous plats on which many varieties of farm crops are grown, and upon which important experiments are carried on.

The soil physics laboratory has a good supply of apparatus for accurate and up-to-date work, including balances, microscopes, drying ovens, hot-water baths, compacting machines, and apparatus for determining the mechanical analysis of soils.

The farm crops laboratory, recently equipped with gas, has a large supply of farm crops on hand for illustrative and laboratory work. It is supplied with magnifying glasses, a Grey seed weigher, a vertical air-blast seed separator, a seed germinator and tester, as well as enlarged and dissectible models of various grains, grasses, and root crops.

The Commercial Rooms occupy the entire third floor of the front of the Main building, covering a floor area of 7,225 square feet. Each room is specially designed and furnished for the work to be conducted in it. Practice is given in the methods of modern banking; wholesale, retail, and commission trade; and in the methods used in freight, insurance, and real estate offices. The room for typewriting contains a full complement of standard machines. The rooms for stenography and penmanship are conveniently furnished for efficient work.

The College Museums contain a large number of specimens illustrative of geology, mineralogy, paleontology, and vertebrate and invertebrate zoology, including a large series of the insects of the inter-mountain region; also an extensive series of plants of the western highlands. An extensive collection of grains represents the produce of Utah and other states. Contributions of fossils, ores, animals, plants, relics, or other material of value to the museums, are highly appreciated. All gifts are labeled and preserved, and the name of the donor is kept on record.

The Art Rooms, composed of six studios, are supplied with plain and adjustable tables for the elementary work in drawing and design; also with easels and model stands for the studio. Individual lockers for students, and cases for the materials of the department are supplied. Casts from the old masters in scultpure, reproductions of great paintings, examples of Japanese art, still-life models, drawing boards, and draperies are included in the

equipment, as well as a valuable collection of ceramics, textiles, books on design, household art, sculpture, painting, and architecture.

The rooms are further supplied with a kiln for china firing, and equipment for work in ceramics, pottery, art leather, art metal, and jewelry.

Model rooms are supplied for training in interior decoration and household furnishing.

The Library, with the offices and reading room, occupies the entire front of the second floor of the Main building. The large, well-lighted main room is cheerful and inspiring, with an unsurpassed view over the entire valley. Growing plants, pieces of sculpture, and a number of oil paintings further enhance the attractiveness of the environment. The books are shelved on the Library Bureau, standard, steel stacks, arranged in alcoves, where tables are provided for advanced students wishing to do special study.

The library now contains about 27,000 bound volumes and a large number of pamphlets. The books are classified by the Dewey decimal system, and there is a complete dictionary card catalogue of the library. The shelf list, also on cards, forms a classed catalogue for official use.

The library, a depository for United States public documents, receives practically all material printed by the government. The files of the U. S. Agricultural Department and the publications of the State Experiment Stations are nearly complete; the bulletins are bound, and both made easy of access by the printed card catalogues. There are one hundred and twenty-five periodicals on the subscription list, besides about eighty which are received as exchanges for the publications of the College and of the Experiment Station. Thirty-five newspapers of the State are regularly received and placed on file in the reading room.

The land occupied by the College and its several departments embraces about 116 acres. Of this, thirty-five acres constitute the campus, laid out with flower-beds, broad stretches of lawn, and

wide drives and walks leading to the College buildings. During the summer the conservatory contributes specimen plants for lawn decoration.

Immediately east of the Main building are the parade grounds and old athletic field, of about ten acres. The farms comprise 71 acres; the orchards and the small fruit and vegetable gardens, 10 acres. All parts of the College grounds are used by the professors in charge of instruction in agriculture and horticulture, and by the Experiment Station staff for the purpose of practical illustration in their respective departments, and for experimentation.

A number of other farms are maintained, under the direction of the Experiment Station, in various parts of the State.

The equipment of the Branch Agricultural College is described in the circular of that institution.

THE AGRICULTURAL EXPERIMENT STATION

THE AGRICULTURAL EXPERIMENT STATION is a department of the College, supported by Congressional and State appropriations, supplemented by the receipts from the sales of farm products. The station was created for the special purpose of discovering new truths that may be applied in agriculture, and of making new applications of well-established laws. It is, therefore, essentially a department devoted to research; and as such, it does the most advanced work of the College.

The Experiment Station is not, in the ordinary sense, an institution where model farming is carried on. It has a much higher purpose. The practices of the farmer are subjected to scientific tests, in order to determine why one is bad and the other good. Acting on the suggestions thus obtained, the scientists begin new investigations, in the hope that truths of great value to the farmer may be discovered.

The Station confines its efforts as far as possible to the particular problems of the inter-mountain regions. Irrigation is the

foundation of western agriculture and irrigation has therefore received greatest attention at this station. Elaborate experimental plats have been equipped, where the value of different quantities and different methods of application of water have been studied and the underlying principles brought out.

Dry-farming extends agriculture beyond the reach of the irrigation canal, and its problems are only second in importance to those of irrigation in the development of the West. A number of experimental dry-farms are maintained on which every effort has been made to increase the possibilities of production of this arid, unirrigated land. Many of the present investigations involve the water-holding capacity of soils, the water requirements of crops, the movement of plant foods, and other questions fundamental to all systems of agriculture.

Other problems vitally affecting the agricultural West are under investigation. Breeding experiments for the improvement of sugar beets, dry land grains, alfalfa, and poultry are in progress. Studies of insect pests and plant diseases affecting western crops and orchards have received consideration. The problem of producing fruit free from worms has been practically solved. The control of the alfalfa weevil is the present problem. The development of better cropping methods, care and feeding of livestock, the development of the dairy industry, and the general betterment of western agricultural conditions are among the problems the station is attempting to solve.

State appropriations are granted under provision that the Southern experiment farm and the arid experiment farms be maintained, and that work in irrigation and drainage, and the study of the alfalfa weevil, be continued. Publications of the station are also provided for. Bulletins containing the results of experimental work, circulars containing timely and practical information on various subjects, an annual report giving account of the station's activities during the year, together with an itemized statement of its expenditures,—these constitute the publications of the station. The bulletins and circulars are published at irregular intervals.

The Experiment Station has a high educational value. Nearly all the members of the Station staff are also members of the College faculty; the students, therefore, receive at first hand an account of the methods and results of the work of the Station, and training in their application. The opportunities that the Experiment Station offers for advanced work in several branches of science are of great importance. The scientific method and spirit characterize all the operations of the Station, and none can fail to be benefited by a study of the experiments that go on at all times of the year.

The Station staff are always glad to assist the advanced students of the institution in any investigation they may wish to undertake.

THE EXTENSION DIVISION

The Extension Division of the Utah Agricultural College was organized for the purpose of disseminating all the work of the College among the people of the State, as far as this is practicable, and for the further purpose of beginning new work outside the College which may be of service to the people of the State. The Division, therefore, serves two purposes: it carries on organized instruction in the various subjects included in the College curriculum; and it performs personal and community service of a more directly practical nature.

ADMINISTRATIVE DEPARTMENTS

The Extension Division, in its administration, is divided into seven departments as follows:

- 1. Farmers' Institutes and Schools
- 2. Boys' and Girls' Clubs
- 3. Farm and Home Demonstration
- 4. Women's Social and Home Economics Associations
- 5. Correspondence Studies

- 6. Trains, Fairs and Exhibits
- 7. Publications

The Department of Farmers' Institutes and Schools includes the work done in meetings among the farmers and housewives of the State. These meetings may be single, called institutes; or they may be organized courses of study in one or many subjects, called schools. In the schools, the field of instruction is broad, based largely upon existing courses of instruction in the College. At present the following courses of instruction are emphasized because of their immediate relation to the needs of the State: agronomy, agricultural economics, agricultural engineering, animal husbandry and dairying, entomology, home economics, horticulture, irrigation, poultry husbandry, and veterinary science. As the work develops, the field of instruction will be enlarged to include all the courses given in the institution which are adaptable to extension instruction.

The Department of Boys' and Girls' Clubs is conducted cooperatively with the United States Department of Agriculture. The purpose of this department is to interest the boys and girls in agriculture, home economics, and other industrial subjects, and to be of direct service to the parents of the State in supplying work of great intellectual and practical value for their sons and daughters. This work is affiliated with public schools, church organizations, and other existing organizations of boys and girls. Contests are conducted by the department in the growing of potatoes, sugar beets, mangel wurzels, cabbages, onions, peas, tomatoes, cucumbers, celery, poultry, corn and pigs, flowers, and in the making of bread, in canning, sewing, in the arts and crafts, etc. The competition is arranged first among members of the same club; then among the champions of the clubs in the county; and finally, among the champions of all the counties. A State champion boy and a State champion girl are thus selected each year. To promote the work, various prizes are offered.

The Department of Farm and Home Demonstration controls the work of the county demonstrators, also called agents and advisers. The appointing of county demonstrators in both agriculture and home economics was authorized by the State legislature of 1913. The law authorizes the College to enter into cooperation with the United States Department of Agriculture, with county and city officers, and with private or public organizations or individuals in pursuance of the work. The demonstrators travel from farm to farm and from home to home presenting and demonstrating such facts, principles, and practices of modern agriculture and home science as seem needed in the development of the districts assigned. The demonstrators cooperate with the experts at the College and of the United States Department of Agriculture. The demonstrator, therefore, is looked upon not as a separate and distinct unit in extension work, but rather as a member of the extension faculty in agriculture and home economics. Cooperation has been effected with the United States Department of Agriculture, with the various county commissioners, and with individuals.

The Department of Associations for Women works through the women's organizations of the State—civic, religious, or literary—and organizes groups of girls and women in the study of home economics. Monthly study outlines, or home economics leaflets, are issued by the Extension Division for the use of the home economics associations. Such aid as is possible is given other women's organizations in the State to help them in their educational and home work. This aid takes the form of special lectures, supplying reading matter, suggestions for organization, and study outlines.

THE CORRESPONDENCE-STUDY DEPARTMENT. One of the recent developments of college and university organization is the establishing of correspondence-study departments. Universities and colleges have discovered in them an opportunity to extend their activities beyond the class room and laboratories to the fireside.

Correspondence-study furnishes an excellent opportunity of systematic instruction for the student preparing for high school or college, the teacher, the professional or business man, club women, and for all people whose time is so taken up that they cannot leave home.

Admission. Students must be eighteen years of age or graduates of the public school.

Scope. Courses are offered in this department as follows:

- 1. Academic studies which, under certain restrictions, may be taken for credit towards a degree.
- 2. Practical studies designed to advance men and women in a given occupation.
- 3. A Colonists' course for those who have come to Utah recently or those who, having lived here, wish to follow agriculture as a pursuit.
- 4. Housekeepers' course for the housekeepers of the State, relating to domestic economy, including household architecture, home sanitation, the economic and hygienic value of foods and clothing, and the scientific care of children.
 - 5. Preparatory or high school course.
 - 6. Preparatory or grade studies.

A special bulletin of the correspondence-study department will be mailed to any one interested in this work.

The purpose of the Department of Trains, Fairs and Exhibits is to conduct trains in cooperation with the railroads, to encourage county and other fairs by supplying organization and exhibition outlines, lectures, and judges of exhibits. On various other occasions the Extension Division is called upon to supply material for exhibition.

The publications of the Division are issued as occasion demands

COLLEGE PROPER

ORGANIZATION

For the purpose of efficient administration, the instruction on the campus or in the College Proper is divided into seven schools: (1) The School of Agriculture; (2) The School of Home Economics; (3) The School of Agricultural Engineering; (4) The School of Commerce; (5) The School of Mechanic Arts; (6) The School of General Science; (7) The Summer School. In addition the last two years of a high school department are this year maintained. These schools are educationally interdependent, and together form a unit.

The School of Agriculture offers a four-year college course with opportunity to major in agronomy, horticulture, animal husbandry and dairying, agricultural chemistry, bacteriology, plant pathology, veterinary science, or economic entomology.

The School of Home Economics offers a four-year college course with opportunity to major in food and dietetics, domestic arts, home sanitation and construction, art, and music.

The School of Agricultural Engineering offers a four-year college course with the opportunity to major in irrigation and drainage, farm mechanics, agricultural surveying, roads, rural architecture, rural sanitation, and agricultural technology.

The School of Commerce offers a four-year college course with the opportunity to major in accounting, economics, political science, sociology, and history.

The School of Mechanic Arts offers a college course in mechanic arts, with the opportunity to major in woodwork, iron work, and machine work.

The School of General Science offers a four-year college course in general science.

The Summer School offers instruction during six weeks of the summer, after the regular term has closed, in most of the subjects taught during the winter.

Each school also offers *Practical Year and Winter Courses* which may be taken by mature students fitted to follow them.

For Normal Training, see page 52.

THE SCHOOL OF AGRICULTURE

Agriculture is one of the most promising of modern professions. It is growing very rapidly, and owing to the scientific foundation that recent years have given it, large numbers of intelligent people are adopting it as their means of livelihood. The new agriculture is not a profession of unceasing toil. On the contrary, the freedom, health, intellectual activity, and profit to be obtained from intelligent farming are attracting the best classes of people. Utah and other western states are offering excellent opportunities to those who prepare themselves for scientific farming. There is a great demand for men who can supervise large farm enterprises; there is a greater demand for men who can act as experts, experimenters or teachers in the schools and other institutions in the State and National Government. The supply of such men does not begin to equal the demand.

The instruction in agriculture is drawn from any or all the departments of instruction. The departments giving instruction in the technical phases of agriculture are described further on.

Experience has shown that practically all of the students who take agriculture come from the farms, and it is assumed that they are acquainted with the various manual operations of farm work. The design of the courses is, therefore, to teach the sciences that underlie practical agriculture, and to offer sufficient supplementary studies to develop the agricultural student to the intellectual level of the educated in the other professions. The agricultural courses are planned to lay a foundation upon which the student can build a successful career as a farmer or develop into a specialist in some one line of agriculture.

The general and departmental libraries enable the student to become acquainted with a wide range of agricultural and related literature; the laboratories of the College, and the Experiment Station afford opportunity for training and experience not obtainable from books alone.

For subjects in which the student may major see page 53.

THE SCHOOL OF HOME ECONOMICS

The courses in Home Economics aim to train and broaden the minds of women, and to enable them to meet more intelligently the home demands of modern life. When woman has learned to apply the principles of science, economics, and art to the problems of daily living she will realize that housekeeping is an occupation which results in more efficient living. Formerly the higher education of woman led her away from the practical interests of the home. The recent instituting of domestic science courses in many leading colleges and universities shows a public demand for education toward home life rather than away from it. The State of Utah wisely introduced such courses when this College was first organized; and the favor with which the work has been received by the public shows the wisdom of the plan. The home economics courses have been strengthened each year, and better facilities for instruction and study have been provided. The School of Home Economics comprises five departments,—namely, Food and Dietetics, Domestic Art, House Construction and Sanitation, Art, and Music. The four-year courses give the same general training as do other baccalaureate courses, together with a broader culture in literature and other subjects of special interest to women than is offered in any other. Both in the preliminary work and in the advanced years, special studies in the various lines of home science are prescribed in logical order as the distinctive feature of the course.

The practical courses in home economics are offered for the benefit of young women who do not wish to take the studies of the regular college years, but desire to devote more time to the subjects of special interest to women.

For majors and minors see page 54.

THE SCHOOL OF AGRICULTURAL ENGINEERING

The rural problem has many phases. An adequate and selfperpetuating country life cannot be introduced simply by teaching people how to raise grain and fruit, and how to manage and improve livestock. The country could be filled with farmers well trained in these branches and still lack many of the elements necessary for a well-balanced and efficient rural community. There are many problems having to do with the entire community rather than with the individual farmer, which must be solved by men with training for that kind of work rather than by those trained to produce crops and livestock on a single farm. Again, there are questions on the individual farm which have to do with construction rather than with production from the soil. These questions, if they are to be answered properly, must be answered by men with special training.

In the past, agricultural colleges have given their attention to the direct questions of farming, but the time has come when the entire rural problem must be met. The farm must be a desirable and healthful place to live. The buildings must be so arranged and constructed as to give the maximum of efficiency and comfort and at the same time have proper sanitary provision. The rural roads must be such that the farmer can move his crops with small expense, and go to town with comfort and speed. The machinery of the farm must be so constructed and cared for that it will be reliable and do its work economically. The limited supply of irrigation water must be so used that it will produce maximum returns. There must be factories to change the raw materials of the farm into high-priced finished products. All these necessities demand men trained for such work.

These various activities may be classed under agricultural engineering. To meet the demand for this work, the Utah Agricultural College has organized a School of Agricultural Engineering. The work is designed to give men general training that will enable them to solve all but the most technical engineering problems of an entire rural community. The courses will also be very helpful to the man going back to the farm, who does not wish to do the work of a trained engineer.

Students may major in irrigation and drainage, farm me-

chanics, agricultural surveying, farm and public roads, rural architecture, rural sanitation and public health, agricultural technology, and art. These courses all lead to the degree of Bachelor of Science.

THE SCHOOL OF COMMERCE

The purpose of the School of Commerce is to give opportunity for a liberal education with special emphasis upon the commercial and industrial phases of life. Persons who complete the commercial courses should be better prepared to assume leadership and responsibility in business and in the various industries and professions. In order to meet the growing demands and to keep pace with recent tendencies in business education, students working for the bachelor's degree may major in economics, political science, sociology, accounting, and history.

In addition to these college courses, practical year and winter courses are offered.

For those who wish to enter the professions of law and medicine, the commercial courses afford excellent preparation. Students who complete the courses are prepared for positions as teachers in commercial schools. The demand for thoroughly qualified teachers is greater than the supply, and many desirable positions as industrial managers are open to those who can do the work.

THE SCHOOL OF MECHANIC ARTS

The information offered in the mechanic arts courses finds application in every industrial activity, and is much demanded by the rapid growth in the mechanical and industrial pursuits. As more and more of the work of man is done by machinery and labor saving devices, it is desirable to obtain information that will enable him to meet the new conditions intelligently. The many applications of electricity and gas power in the factory, shop, home,

and on the farm, and the advent of the automobile demand a knowledge of materials, tools, machines, and processes.

The agricultural student can obtain in the School of Mechanic Arts just the information he needs to enable him to do the constructive work in farm buildings, and the repair work necessary in operating machinery, thereby making farm life more profitable and desirable. Those who intend to follow engineering will find no better preparation than that offered in the mechanic arts courses. In the shops a knowledge of the nature of materials, methods of construction and operation of machinery, can be had better than elsewhere. The demand for manual training teachers is far in advance of the supply. This school offers efficient instruction and assistance in the preparation of such teachers. The one endowed with innate mechanical ability will find ample opportunity to develop his powers, and enjoy the privilege of working where nature intended. The life of the first class mechanic is as free as any, and his efforts bring good wages. The shops are especially equipped and otherwise prepared to give instruction to those choosing this as a source of livelihood.

After the preliminary work of the shops has been completed the course admits of specialization in cabinet making, woodturning, pattern-making, house building and finishing, general blacksmithing, horseshoeing, carriage building and repairing, tool making, press work, die construction, jigs and fixtures, machine construction, and shop management.

The drafting rooms give thorough work in the methods of making mechanical drawings, and afford opportunity to specialize in the line of work the student is pursuing; such as, architectural, carriage, machine, and agricultural drawing.

All the departments of the School of Mechanic Arts are excellently equipped with the necessary tools for their respective work.

A four years' college course leading to the degree of Bachelor of Science is offered. Students may major in wood work, iron work, machine work, and art. Short practical Year and Winter Courses are also offered.

All products of the shop are the property of the school, students being allowed to take away specimens of their work only by permission.

THE SCHOOL OF GENERAL SCIENCE

To carry out the work of the several technical schools of the College, an efficient instructing force and a complete modern equipment have been provided in the natural and physical sciences, as well as in English, mathematics, history, language, etc. This makes it possible to satisfy the growing demand for strong baccalaureate courses affording a broad general education in the earlier years, and admitting of specialization later, when the student has matured his plans. Such courses constitute the work of the School of General Science, and, paralleling the other degree courses of the College, lead to the degree of Bachelor of Science.

Upon completion of four years' work in general science, students receive the degree of Bachelor of Science in General Science.

For subjects in which students may major, see page 54.

SUMMER SCHOOL

The College maintains, as an integral part of its work, a summer session, beginning early in June, and continuing for six weeks. Every department of the College is represented, the courses of instruction being arranged to meet the particular needs of summer students. For the benefit of teachers, special courses are provided in addition to the regular work of the College. Students desiring to make up conditions or prepare for advanced work are given all assistance possible. The entire equipment of the institution is available for the summer session, and every care is taken to preserve the standard and the spirit of the College. No admission requirements are prescribed, but students in all departments are directed by instructors to those courses in

which they may pursue work to the best advantage. Arrangements have been made with the State Board of Education to accept summer school credits in individual subjects in lieu of examination. An entrance fee of \$5 is charged for each course. Board and rooms can be secured throughout the city at the usual prices. The special summer school circular will be sent on request.

NORMAL TRAINING. For the purpose of providing specially trained teachers of domestic science and arts, agriculture, and mechanic arts, arrangements have been made whereby the graduates of the Normal School of the State University may enter the degree courses of the Agricultural College and there obtain technical work in home economics, agriculture, and mechanic arts. All the work done in the State Normal School is credited the candidates for the professional degree.

Graduates from the degree courses in home economics, agriculture, and mechanic arts of the Agricultural College are given the normal certificate upon the completion of one year of professional work at the State Normal School.

SCHEDULE OF REQUIRED WORK FOR GRADUATION

A regular student who presents 14 units of high school work for entrance, must complete 120 semester hours before receiving his diploma. A student who has presented for entrance 11 units of high school work, under the old requirement, must complete 140 semester hours before receiving his diploma. Of the required 120 hours, 16, forming the major, must be in one department. The minor of 12 hours, chosen from one or more departments, must be taken in the same school as the major. This is the so-called technical work. Besides this, 64 hours of general work must be chosen from different groups. Finally, 28 hours of elective work are required. This is shown in tabular form as follows:

SUMMARY OF REQUIREMENTS FOR GRADUATION

(In Semester Credit Hours)

Technical Division		
Major Subject	16 h	ours
Minor Subject (must be in same school as the major		
subject)	12	"
General Division		
Biological Science Group	12	"
Elective		"
Exact Science Group	24	"
Language Group		"
Social Science Group		"
_		
Total	120 h	01115

The departments of instruction from which major and minor subjects may be elected are grouped as follows:

REQUIRED WORK

Technical Division

Major, 16 hours in one department
Minor, 12 hours in some other department or departments of
the same school

SCHOOL OF AGRICULTURE

Agronomy	Chemistry
Animal Husbandry	Dairying
Art (minor only)	Entomology
Bacteriology	Horticulture
Botany and Plant Pathology	Veterinary Science

SCHOOL OF AGRICULTURAL ENGINEERING

Art Irrigation and Drainage

Agricultural Surveying Roads

Agricultural Technology Rural Architecture
Farm Mechanics Rural Sanitation

SCHOOL OF COMMERCE

Accounting and Business Prac- Political Science

tice Sociology

Art (minor only) Stenography (minor only)
Economics Typewriting (minor only)

History

SCHOOL OF HOME ECONOMICS

Art Home Sanitation and Construc-

Domestic Art tion Food and Dietetics Music

SCHOOL OF MECHANIC ARTS

Art Machine Work Iron Work Wood Work

SCHOOL OF GENERAL SCIENCE

Art History

Bacteriology Library Work*
Botany Mathematics

Chemistry Music
Drill* Physics

English Physical Education*

Entomology Physiology Foreign Languages Zoology

Geology

The departments of instruction from which the general subjects may be elected are grouped as follows:

^{*}May count towards a minor.

REQUIRED WORK

General Division

BIOLOGICAL SCIENCE GROUP (12 hours)

Bacteriology Physiology

Botany Veterinary Science

Entomology Zoology

EXACT SCIENCE GROUP (24 hours)

Accounting Mathematics
Chemistry Physics

Geology and Mineralogy

LANGUAGE GROUP (16 hours)

English Latin
French Spanish

German

SOCIAL SCIENCE GROUP (12 hours)

Economics Political Science
History Sociology

ELECTIVES—28 hours

PRACTICAL COURSES

Winter and year courses of a purely practical nature, in agriculture, home economics, mechanic arts, and commerce have been established. These courses are not intended for young people of high school age. To enter them, a person must be over eighteen years of age, or must have completed two years of high school work. There are no other entrance requirements, and no entrance examinations. Such students are allowed to take any course for which their training is adequate. No student is permitted to choose work in commerce, however, without taking at the same time a course in English. Special groups of studies suitable for such students are given below:

FIRST YEAR

FULL YEAR COURSES AGRICULTURE

SECOND YEAR

Agronomy 1 4	
	Animal Husbandry 1 4
Horticulture 1 3	Irrigation 1 3
Veterinary Science 1 3	Entomology 1 3
Poultry 1 3	Dairying 1 3
Shop 5	Shop
HOME ECO	-
Domestic Art a and b	1st Term 2nd Term
Domestic Science	
Physiology 1	
English a	
Art	
Gymnasium Work	
	ר י
Accounting 1	
Accounting 1 MECHAN	IC ARTS
MECHAN	IC ARTS
MECHAN Carpentry a and b	IC ARTS 1st Term 2nd Term5
MECHAN Carpentry a and b	IC ARTS 1st Term 2nd Term
MECHAN Carpentry a and b	IC ARTS 1st Term 2nd Term
MECHAN Carpentry a and b	Ic ARTS 1st Term 2nd Term 5 5 5 5 5 5
MECHAN Carpentry a and b	1st Term 2nd Term 5 5 5 5 5 5 5 5 5 5
MECHAN Carpentry a and b	Ist Term 2nd Term 5 5 5 5 ERCE YEAR 2nd Term
MECHAN Carpentry a and b	Ist Term 2nd Term 5 5 5 5 ERCE YEAR 1st Term 2nd Term 5 5
MECHAN Carpentry a and b	1st Term 2nd Term 5 5 5 5 5 5 5 5 5 5 5 5 5 5 6 5 7 5 7 5 7 5 7 5 7 3 3 3
MECHAN Carpentry a and b	1st Term 2nd Term 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 6 3 7 3 7 3 7 5 8 5 5 5
MECHAN Carpentry a and b	Ic ARTS 1st Term 2nd Term 5 5 5 5 5 5 ERCE YEAR 1st Term 2nd Term 5 5 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
MECHAN Carpentry a and b	Ic ARTS 1st Term 2nd Term 5 5 5 5 5 5 ERCE YEAR 1st Term 2nd Term 5 5 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
MECHAN Carpentry a and b	IC ARTS
MECHAN Carpentry a and b Forging a and b Machine Work a and b COMM FIRST English a Business Correspondence Accounting a Stenography a Typewriting	IC ARTS

SECOND YE	AR
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SECOND TERM		
English b	5	5
Accounting b	5	5
Stenography b		
Commercial Arithmetic		
Typewriting		
Drill		
	_	
	20	20
THIRD YEAR		
Accounting c	5	5
English c		
English c	3	3
Economics 11	3	3
Economics 11	3	3 3
Economics 11	3	3 3
Economics 11	3	3 3

WINTER COURSES

These courses are designed for students who are on the farm late in the fall and early in the spring. The instruction given covers one half of a school year. Credits earned in the winter courses may be applied towards graduation should the student enter a regular course.

The instruction begins Tuesday, November 17, and closes Saturday, March 27.

The following subjects will be offered from which winter students may elect from 18 to 20 hours:

AGRICULTURE

5
5
5
5
5

(Not more than four may be taken.)

MECHANICAL ARTS AND AGRICULTURAL ENGINEERING

Farm Buildings and Machinery	 5
Carpentry	 5
Forging	 5
Machine Work	 5
COMMERCE	
	_
English x	 5
Business Correspondence and Spelling	 5
Commercial Arithmetic	 5
Penmanship	 1
Accounting 1	 1
Economics 11	

Classes in mathematics and other general subjects are also organized for winter students.

SPECIAL STUDENTS

Students of mature age who do not wish a college diploma are allowed to select studies in any school they desire, provided they have done enough preliminary work to carry the courses successfully.

RELATION BETWEEN U. OF U. AND U. A. C.

The University of Utah and the Agricultural College of Utah are the two institutions maintained by the State for the higher education of its citizens. They have been assigned separate and sharply defined parts of the field of human knowledge. The laws defining these divisions are printed below.

In spite of the existing laws, much misunderstanding exists as to the work that may be done by either of these institutions. To set doubts at rest, the agreement printed below, which is merely an interpretation of the law, has been ratified by the Board of Regents of the University of Utah and by the Board of Trustees of the Utah Agricultural College.

To the Agricultural College, alone, has been assigned the collegiate work in all branches of agriculture, irrigation, agricultural engineering, home economics, including domestic science and art, commerce, and mechanic arts. To do properly the work thus assigned, first class departments must be maintained in practically all of the arts and sciences. All the work of the Agricultural College is, however, done with a view to its application in the fields belonging to the College. Moreover, the College is the conservator, as far as an educational institution may be such, of the industrial development of the State, excluding pure engineering and normal work, which are specifically assigned to the University of Utah.

STATE LAWS RELATING TO THE WORK OF THE TWO INSTITUTIONS

- 2292. Courses of Study in the University. The University, until otherwise provided for by law, shall be the highest branch of the system of public education. As far as practicable its courses and methods shall be arranged to supplement the instruction of the subordinate branches of such system, with a view to afford a thorough education to students of both sexes in the arts, the sciences, literature, and the civil professions, including engineering; but the University must not include in its courses, agriculture, except elementary agriculture as is or may be prescribed in the normal course, horticulture, animal industry, veterinary science, domestic science and art, except as is or may be prescribed in the normal course, and instruction in irrigation as applied to the measurement, distribution, and application of water for agricultural purposes. Approved March 9, 1911.
- 2087. Courses of Study in the Agricultural College. The courses of instruction in the Agricultural College, until otherwise provided for by law, shall comprise agriculture, horticulture, forestry, animal industry, veterinary science, domestic science and art, elementary commerce, elementary surveying, instruction in irrigation as applied to the measurement, distribution, and application

of water for agricultural purposes, for which a degree of engineering in agriculture may be given, military science and tactics, history, language, and the various branches of mathematics, physical and natural science, and mechanic arts, with special reference to the liberal and practical education of the industrial classes. But the Agricultural College shall not give courses in liberal arts, pedagogy, the profession of law or medicine, or engineering, except agricultural engineering. Approved March 9, 1911.

UNIVERSITY OF UTAH-AGRICULTURAL COLLEGE AGREEMENT Proposition 1

The School of Education of the University of Utah shall give all the courses necessary to prepare teachers and supervisors in the elementary schools in all subjects taught in these schools; but the University shall not offer the technical work in agriculture and domestic science and domestic art, needed to prepare special teachers of these subjects in secondary schools. The University shall not offer advanced courses in agriculture, domestic science, and domestic arts; it may offer elementary courses in these subjects—high school courses—and educational courses, i. e., the methods of teaching these subjects.

It is understood that in these subjects courses suitable for third and fourth year high school students are also suitable for freshmen and sophomores in the college who have not had these courses. Such courses may be taught in the School of Education of the University, and students of college grade may receive college credit upon completion of these courses.

The Agricultural College shall not offer courses in education, but shall advise all students preparing to teach to come to the State School of Education to receive instruction and training in professional educational subjects. The School of Education shall advise all students wishing to become special teachers of agriculture, domestic science, or domestic arts in high schools to go to the State Agricultural College for their technical work of college grade in these subjects.

Departments of Instruction

- 1. Accounting and Business Practice.
- 2. Agricultural Engineering
- 3. Agronomy
- 4. Animal Husbandry
- 5. Art
- 6. Bacteriology and Physiology
- 7. Botany
- 8. Chemistry
- 9. Domestic Art
- 10. Economics and Sociology 24. Physical Education
- 11. English
- 12. Finance and Banking
- 13. Food and Dietetics
- 14. Geology and Roads

- 15. History
 - 16. Home Construction and Sanitation
 - 17. Horticulture
 - 18. Library Work
 - 19. Mathematics
 - 20. Mechanic Arts
 - 21. Military Science and Tactics
 - Languages 22. Modern Latin
 - 23. Music

 - 25. Physics and Farm Machinery
 - 26. Political Science
 - 27. Veterinary Science
 - 28. Zoology and Entomology

Courses numbered a, b, c, etc., constitute the work of the short practical courses and are of high school grade.

Courses numbered 1, 2, 3, etc., are of college grade.

RECITATION TABLE

The recitation periods, commonly known as hours, are fifty minutes in duration and begin at 8:30 a.m. The following table shows the entire schedule:

- 1 hour, 8:30— 9:20
- 2 hour, 9:20—10:10
- 3 hour, 10:10—11:00

4 hour, 11:00—11:50 5 hour, 11:50—12:40 6 hour, 12:40— 1:30 7 hour, 1:30— 2:20 8 hour, 2:20— 3:10 9 hour, 3:10— 4:00

From 11 a. m. to 2 p. m. the cafeteria, or college restaurant, is open.

The fourth period (from 11 to 11:50 a.m.) is devoted on Tuesdays to chapel exercises, on Fridays to Student Body meetings, and on Wednesdays, Thursdays, and Saturdays, to military drill.

ACCOUNTING AND BUSINESS PRACTICE

Professor P. E. Peterson Mr. Thain

a. Elementary Bookkeeping. Training in the fundamental principles of modern accountancy. Entries are made to purchases, sales, and inventory accounts. Subsidiary trading and profit and loss accounts are thoroughly explained. Thorough drill is given in the preparation of trading and profit and loss statements, and in statements of resources and liabilities. Two hours daily throughout the year. Ten credits.

12:40 to 2:20, daily

b. Bookkeeping and Business Practice. A continuation of the work done in course a. In the second term, the student employs the principles previously learned in a manner approaching, as nearly as possible, actual business. He performs complete transactions with the firms represented in the office-practice department. As much of the work is done by correspondence, special emphasis is given to letter writing. Two hours daily throughout the year. Ten credits.

2:20 to 4:00, daily

c. Bookkeeping and Office Practice. In the first half of this course the student is given instruction in the use of the various office appliances—filing systems, mechanical devices, shortcut and time saving methods, etc. In the latter half, the students are employed successively in offices representing various lines of business: wholesale and retail merchandising, real estate and insurance, commission, railway station work, and banking. Corporation organization and accounting are emphasized. Two hours daily throughout the year. Ten credits.

2:20 to 4:00, daily

- d. FARM BOOKKEEPING. A course intended to supply the needs of students doing work in the short courses in agriculture. Laboratory work and lectures. Winter course work.
- e. Commercial Arithmetic. This is a complete course in commercial mathematics. Particular attention is given to business measurements, and to percentage and interest as applied to profit and loss, commission, stocks and bonds, insurance, bank discount, averaging accounts, and partnership adjustments. Short methods are emphasized. Three hours throughout the year. Six credits.

Tu. Th. Sat. 8:30

f. Business Correspondence and Spelling. This course is designed for first year students. Practice in the writing of all kinds of business letters is given, and the correct use of all business blanks and forms is emphasized. The latter part of the course is devoted to the acquiring of a business vocabulary. Two hours throughout the year. Four credits.

Wed. Fri. 8:30

1. Principles of Accounting. Primarily a course in theory. Much of the first semester is devoted to practical bookkeeping methods to meet the needs of students who have not had sufficient training before entering the course. The rest of the year is given to advanced work. Some of the subjects treated are: the theory of double entry bookkeeping, balance sheet, assets and their valuation, depreciation, liabilities, surplus, reserves, sinking funds, etc. Practical problems are given. Two lectures and two

two-hour accounting-practice periods a week throughout the year. Accounting 1 may, however, be elected as a half course by non-commercial students. Six credits.

Lec. Tu. Th. 9:20; acct. prac. Wed. Fri. 9:20 to 4

2. Systems of Accounts. A thorough study of the leading accounting systems of business firms; such as, building and loan associations, life and fire insurance companies, banks, trust companies, creameries, department stores, electric lighting, steam railway, electric railway, municipalities, and executor's and trustee's accounts. Each student is required to inspect and report upon the accounting systems of representative local and other business firms, and, in adition, to outline and install a suitable system of accounts for at least one of the school offices. Lectures, assigned problems, and reports. Eight credits.

Daily except Sat. 10:10 to 11

3. Practical Accounting. This course gives special attention to the working out of various published reports and balance sheets, and to the solution of accounting problems likely to arise in actual practice. It is essentially the case method applied to accounting. Three hours throughout the year. Six credits.

Tu. Th. Sat. 11:50

4. Cost Accounting. A half course dealing with cost accounting, factory organization, and systematizing. Two lectures and one three-hour laboratory period. Three credits.

Not given in 1914--1915.

5. Corporation Accounting. A half course giving practical training in all the phases of corporate organization, and accounts. Two lectures and one laboratory period. Three credits

Not given in 1914--1915.

6. AUDITING. A full course, open to those sufficiently qualified, covering the field of auditing and investigations. Besides the theoretical study students have the opportunity to audit the accounts of the school offices. Three hours throughout the year. Six credits.

Alternates with courses 4 and 5. Not given in 1914-1915.

- 7. Household Accounts. The practical application of accounting principles to home problems, intended to meet the needs of students in the School of Home Economics. Prerequisite, Accounting 1. Two lectures and two two-hour accounting-practice periods, second term. Three credits.
- 8. FARM ACCOUNTS. The direct application of accounting principles to the needs of the farm. A course in farm cost accounts. Prerequisite, Accounting 1. Two lectures and two accounting-practice periods, second term. Three credits.

Lec. Tu. Th. 1:30; acct. periods, Wed. Fri. 12:40 to 2:20 For stenography and typewriting, see page 134.

AGRICULTURAL ENGINEERING

PROFESSOR HARRIS, DIRECTOR

IRRIGATION AND DRAINAGE

Professor R. B. West Mr. Winsor

1. ELEMENTARY IRRIGATION AND DRAINAGE. An elementary course designed especially to meet the requirements of the student who can give but a limited time to the subject. Lectures on field irrigation and methods of farm drainage. Field excursions to irrigation systems and practical drainage operations. Three hours, first term. Three credits.

Tu. Th. Sat. 8:30

2. IRRIGATION PRACTICE. This course deals with the agricultural rather than with the engineering side of irrigation. It treats of methods of handling the water after it has reached the land, and of the relations between moisture and crops. Those periods in the growth of plants especially influenced by moisture-

environment, and the effect of this environment on the yield and composition are given special attention. Prerequisites, Botany 1 and Agronomy 14. Two lectures and one laboratory period, second term. Three credits.

Lec. Th. Sat. 8:30; lab. Fri. 2:20 to 4:50

3. FARM DRAINAGE. A technical course, dealing with the laying out and constructing of drainage systems in arid regions. Special attention is given to the drainage of alkali lands. Three hours, first term. Three credits. Prerequisites, Irrigation 1, Plane Surveying.

Tu. Th. Sat. 12:40

- 4. IRRIGATION SYSTEMS. Irrigation systems are studied as units. Such problems as the planning and conducting of irrigation projects, forming companies, getting rights, laying out and constructing canal systems, are discussed. Trips are made to inspect some of the important irrigation projects of the State. Prerequisites, Irrigation I, Plane Surveying, Hydraulics, and Rural Architecture 3 and 4. Three hours, second term. Three credits.
- 5. Irrigation Management. This course deals with methods of managing irrigation canals after they have once been put into operation. It discusses methods of keeping the canal in repair, and of properly distributing the water to users. It is especially valuable to water masters. Two hours, first term Two credits.
- 6. IRRIGATION INSTITUTIONS AND ECONOMICS. This course treats of the relation of irrigation to various industries and to the country in general. It also discusses the law regarding the use of water. Two hours, second term. Two credits.
- 7. Hydraulics. A technical course dealing with the flow of water in natural and artificial open channels, pipes, and flumes; the elementary laws of liquids in motion and at rest; and the elementary principles of water power development. Three hours, second term. Three credits.

Tu. Th. Sat. 10:10

- 8. RAINFALL AND RIVER FLOW OF THE WORLD. A general survey of the regions of the world where the rainfall is so light as to require irrigation; the available supply of irrigation water in streams, and the possible methods of increasing that supply by reservoirs, etc. Two hours, one term. Two credits.
- 9. IRRIGATION DESIGNS. Engineering of water delivery to the land. Design of headgates, flumes in wood and iron, drops, dams, and spillways, etc. Prerequisites, Irrigation and Drainage 7, Rural Architecture 3 and 4. Three hours throughout the year. Three credits.

First term, lec. Tu. Th. Sat. 10:10; second term, lab. Tu. Th. Sat. 11:50 to 2:20

See Farm Mechanics, page 96, for related work.

AGRICULTURAL SURVEYING

Professor R. B. West

1. FARM SURVEYING. This course is designed primarily for the students of agriculture. Practice is given in the handling of surveying instruments, in the running of land lines and ditch lines, in the grading and leveling of land, the making of profiles and the laying out of tile drains. One recitation, two laboratory periods, second term. Three credits. Prerequisite, Surveying 1.

Lec. Wed. 1:30; lab. Wed. Fri. 2:20 to 4:50

- 2. Canal and Road Surveying. In this course instruction and practice are given in the particular application of the surveying methods used in the laying out and construction of canals and roads. Three hours, one term. Three credits. Prerequisite, Surveying 1.
- 3. Soil and Other Agricultural Surveys. Instruction, under a specialist, in the methods of preparing maps of a given agricultural area, and surveys of the various agricultural interests within the area. Three hours, one term. Three credits.
 - 4. Mapping. The aim of this course is to give practice in

the mapping of the various kinds of surveys that may be encountered by the agricultural engineer. Two laboratory periods a week. Two credits. Second term.

Tu. Th. 2:20 to 4:50

RURAL ARCHITECTURE

Professor R. B. West

1. FARM STRUCTURES...A course dealing with the arrangement, design, and construction of barns, stables, poultry houses, silos, fences, gates, and other farm outbuildings. Three hours, first term. Three credits.

Tu. Th. Sat. 1:30

- 2. FARM HOMES. This course deals with methods of arranging and planning houses suited to the conditions of the farm. Special attention is given to houses within the reach of the average farmer. Three hours, second term. Three credits.
- 3. MATERIALS OF CONSTRUCTION. A study of the materials used in construction: their strength and resistance, action under various methods of loading, the stress set up in beams, columns, and girders; and problems in the design of structural parts. Special attention is given to building materials which are available to Utah farmers. Three hours, first term. Three credits.

Tu. Th. Sat. 9:20

4. MECHANICS OF FRAMED STRUCTURES. This course deals with the strength and design of joints in timber framing. Holding power of nails, screws, drift bolts, etc. Design of beams, columns, and simple trusses in wood. Prerequisite, Trigonometry. Three credits. Second term.

Tu. Th. Sat. 9:20

5. Concrete Construction for Agricultural Purposes. A study of various mixtures of cement and the uses that can be made of them. The use of concrete in the making of barns, water

troughs, posts, etc., is discussed. Two hours, second term. Two credits.

Lec. Wed. 10:10; lab. Tu. Th. 2:20 to 4:50

- 6. Reinforced Concrete. This course embraces the design of beams, columns, and floor slabs in reinforced concrete, and the application of the principles of design to retaining walls, cisterns, etc. Three credits.
- 7. Drafting. A course in drawing plans for buildings, including detailed drawings of parts, cross sections, etc. This course deals with the technique of drafting rather than with creating plans. Three hours, one term. Three credits.
- 8. Planning of Farm Structures and Homes. This course treats of the making of plans for farm buildings, including complete specifications, cost of materials, and erection. Time and credit to be arranged with instructor.

RURAL SANITATION

Professor E. G. Peterson

1. Sanitation. A general course in the principles of sanitation in relation to rural homes and communities: the nature of disease; methods of its spread and means of prevention; the most sanitary methods of arranging and constructing farm buildings; methods of disinfecting. Prerequisite, Bacteriology 1. Three hours, second term. Three credits.

Tu. Th. Sat. 11:50

- 2. Rural Water Supplies and Waste Disposal. Methods of supplying farm and rural communities with sanitary water. Special attention is given to Utah conditions and to the methods of handling the waste of the farm and the small town. Three recitations, one term. Three credits.
- 3. Sanitary Analysis. This course deals with methods of making chemical and bacterial analysis of water, milk, etc., for

sanitary purposes. It is intended primarily as a training for inspection work. Prerequisite, work in chemistry and bacteriology. One lecture and two laboratory periods, one term. Three credits.

4. DISEASE PREVENTION. Lectures on this subject by competent physicians and others. Special attention is given to rural conditions. The course is of a popular nature and is open to all students of the College. Two hours, first term. Two credits.

Wed. Fri. 11:50

5. Sanitary Statistics. A course in vital statistics, showing the effects of sanitary precautions on the death rate. Comparisons are made of the death rate of cities and country communities. Methods of getting statistics and determining death rate are also discussed. Two hours, one term. Two credits.

AGRICULTURAL TECHNOLOGY

Professor Porter

1. Manufacture of Agricultural Products. This is a general course dealing with the conversion of the raw materials of the farm into finished products. The course covers in a general way the processes of manufacturing beet sugar, starch, soap, vinegar, pickles, alcohol, molasses, commercial fertilizers, paper turpentine, lime, cement, and glass. Special attention is given to the factories in operation in Utah and to industries that could profitably be developed in this State. Visits to several factories are required. Prerequisites, Chemistry 1 and 3. Three hours, second term. Three credits.

Wed. Fri. 11:50

2. Manufacture of Beet Sugar. This course deals with the practical methods of obtaining sugar from the beets. Factory methods are studied in detail from the standpoint of the student who intends to go into sugar factory work. The chemical work of determining the acidity, alkalinity, and purity of the juice in

various states, and the estimates of sugar by the polariscope, are given careful attention. Prerequisites, Agricultural Technology 1 and Chemistry 2. Two lectures and one laboratory period, first term. Three credits.

Wed. Fri. 11:50

3. MILLING AND CANNING INDUSTRIES. Two lectures and one laboratory period, second term. Prerequisites, Agricultural Technology 1 and Bacteriology 1. Three credits.

AGRONOMY

Professor Harris Mr. Stewart Mr. Stucki Mr. Maughan

a. Elementary Agronomy. A general course dealing with the principles of crop production, designed for students with little or no previous training in the sciences who wish in a short period to get practical information regarding crops and soils. Lectures, recitations, and written reports. Four hours, first term. Four credits.

Lec. Tu. Th. Sat. 9:20: lab. Wed. 2:20 to 4:50

3. CEREAL CROPS. Lectures, recitations, and laboratory practice on the history, cultivation, production, and marketing of cereal crops. The course, designed to give an intimate knowledge of the plants, forms a basis for judging their products. Two lectures and one laboratory period, first term. Three credits.

Lec. Wed. Fri. 10:10; lab. Th. 2:20 to 4:50

4. Forage, Root, and Miscellaneous Crops. Lectures, recitations, and laboratory practice on alfalfa, clovers, grasses, sugar beets, potatoes, and other crops. In the laboratory the

plants and their products are studied in detail. Field trips are taken. Two lectures and one laboratory period, second term. Three credits.

Lec. Wed. Fri. 10:10; lab. Th. 2:20 to 4:50

5. Seeds and Weeds. A course dealing with seeds and the impurities found in them. A study is made of the quality and preservation of seeds; their storage, shrinkage, vitality, germination, methods and depth of planting, and methods of treatment to prevent disease. The common weeds of Utah are studied, and methods of identifying and eradicating them discussed. Class room, laboratory, and field work. One laboratory and one class period each week. Two credits. Prerequisites, Botany 1 and Agronomy 3.

Alternates with Agronomy 6. Not given in 1914-1915.

6. Judging Market Types of Crops. In this course a study is made of the various methods of scoring grains and other crops. Considerable practice is given in judging crops and in identifying varieties. The types demanded by the market are studied in particular. One class and one laboratory period each week, first term. Two credits. Prerequisites, Agronomy 3 and 4.

Alternates with Agronomy 5.

Lec. Th. 10:10; lab. Fri. 2:20 to 4:50

8. Soil Management. A practical course, dealing with the application to actual farming operations of the principles studied in Chemistry 5a. It is designed to meet the needs of farm managers, giving them a knowledge of the most approved methods of handling western soils. It treats such subjects as time and method of plowing, and other tillage operations; the rotation of crops; the methods of conserving soil moisture; methods of manuring; the improvement of alkali soils; and such other practical operations and problems as are encountered in the management of soils. Lectures and demonstrations. Prerequisite, Chemistry 1 Three hours, first term. Three credits.

Lec. Wed. Fri. 8:30; lab. Tu. 2:20 to 4:50

9. Compared as to their origin, composition, and agricultural value. The various soil provinces and types of the United States, and especially those of the arid regions, are investigated and the methods of their classification discussed. The soils of Utah are studied in detail; the crops adapted to them, and the treatment they should receive are given special attention. Prerequisite, Agronomy 8. Two hours, second term. Two credits.

Alternates with Agronomy 10. Lec. Tu. 9:20; lab. Wed. 2:20 to 4:50

10. Advanced Soils. A discussion of the chemical, physical, and biological properties of soils. The course treats of the methods of soil investigation and of theories of fertility; the relation between soils and crops, and the ultimate effect of certain soil treatments. Special study is made of the soil solution and of the movements of moisture in the soil. Prerequisite, Agronomy 8. Lectures, second term. Two credits.

Alternates with Agronomy 9. Not given during 1914-1915.

- 11. Advanced Laboratory in Soils. Experiments covering somewhat the same field as covered by the lectures in Agronomy 10. Exercises are given dealing with the soil solutions, the fixation of substances added to the soil, soil moisture relations, alkali, and similar subjects. Agronomy 10 must precede or accompany this course. Two hours or more, second term. Credits to be arranged.
- 12. Manures. This course deals with the sources, uses, and effects of artificial fertilizers and amendments; the kinds, compositions, functions, and deterioration of farm manures, and the economical methods of their use. Experiments with manures, conducted at different stations, are discussed in detail. Prerequisite, Agronomy 8. One hour, second term. One credit.

Tu. 8:30

14. DRY-FARMING. Instruction in the methods best adapted

to the growing of profitable crops on arid lands; the treatment of the soil, including the conservation of soil moisture by deep and fall plowing, mulching, etc.; the soils and crops best adapted to arid farming; and the regions offering favorable conditions for its successful practice. The experiments carried on at the arid experimental farms of the State are discussed. Three hours, first term. Three credits.

Tu. Th. Sat. 8:30

- 15. IRRIGATION PRACTICE. See Irrigation and Drainage 2.
- 16. FARM MANAGEMENT. This course meets the needs of those who expect to conduct practical farming operations. It treats of the selection and laying out of a farm, the kind of farming which should be carried on in a given locality, the proper balance between the various activities of the farm, the rotation of crops, raising and marketing different kinds of crops and animals, keeping farm records, the profitable employment of labor, and similar questions of profitable farming. Its purpose is to bring together the facts learned in the various technical courses and apply them to a rational system of farming. Prerequisites, economics and as many courses as possible in agronomy, animal husbandry, and horticulture. Three hours, second term. Three credits.

Lec. Wed. Fri. 8:30; lab. Tu. 2:20 to 4:50

19. Seminar. Each week the advanced students of agronomy meet for one hour to review current agronomic literature, discuss agricultural problems, and report on assigned topics. Required of seniors specializing in agronomy; open also to juniors. One hour throughout the year. Two credits.

Wed. 11:50

20. Research. Seniors specializing in agronomy may elect research work in any branch of the subject. Time and credit to be arranged with instructor.

ANIMAL HUSBANDRY

Professor J. T. Caine III
Professor Carroll
Assistant Professor Alder
Assistant Professor Geo. B. Caine
Mr. Egbert

a. Market Types. The judging of market types of horses, cattle, sheep, and swine. Some score card practice is given, but most of the work is comparative judging of groups of animals. Two class and two laboratory periods, second term. Four credits.

Prerequisite for all other courses in animal husbandry. Lec. Wed. Fri. 10:10; lab. Wed. Fri. 11:50 to 2:20

2. Breed Types. The work covers the origin, history, and characteristics of the different breeds of horses, cattle, sheep, and swine, especial stress being laid upon their adaptability to Western conditions. In addition instruction is given in the judging of representatives of different breeds according to their official standard. Three lectures throughout the year. Six credits.

Tu. Th. Sat. 9:20

3. Animal Nutrition. A brief study of the anatomy and physiology of the digestive system; the purpose of nutrition; the theory and practice of feeding, with especial reference to Utah conditions. Three lectures throughout the year. Six credits.

Tu. Th. Sat. 8:30

4. Principles of Breeding and Herd Book Study. The laws or heredity, correlation, reversion, variation, fecundity; the methods of breeding, cross-breeding, in-and-in breeding, and selection. This work is followed by a study of the various herd books and of the pedigrees of noted individuals of the important breeds. Prerequisite, first term of Zoology 3. Three lectures, second term. Three credits.

Tu. Th. Sat. 1:30

5. Advanced Stock Judging. A course in the judging of groups of animals of all classes. Attendance at the State Fair and at all accessible county fairs is required as part of this course. Prerequisites, Animal Husbandry 1 and 2. Two laboratory periods, first term. Two credits.

Wed. Fri. 2:20 to 4:50

6. BEEF CATTLE MANAGEMENT. A discussion of the practical methods of beef production, including a consideration of range practice, feeding for market, fitting for show, and general care and management. Two class periods, first term. Two credits.

Wed. Fri. 8:30

7. Horse Management. A discussion of market types of horses, handling of breeding and growing horses, fitting for show and sale, and practical methods of handling and training horses Two class periods, second term. Two credits.

Wed. Fri. 8:30

8. Swine Management. The management of the breeding herd, fattening for market, and fitting for show. Two class periods, first term. Two credits.

Wed. Fri. 9:20

9. Sheep Management. General care of sheep on range and farm, fattening for market, fitting for show, and work in grading and sorting of wool. Two class periods, second term. Two credits.

Wed. Fri. 9:20

10. Seminar. The advanced students of animal husbandry and dairying meet once a week with instructors of the department to review the current literature and special phases of these subjects. Two long reports on assigned subjects are required. One hour throughout the year. Two credits.

See Dairying, page 87, for related work.

POULTRY HUSBANDRY

Assistant Professor Alder Mr. Egbert

1. General Poultry. A general study of the different breeds, judging and breeding, incubation, brooding, housing, feeding, and marketing. Two recitations and one laboratory period, second term. Three credits.

Lec. Tu. Th. 9:20; lab. Fri. 2:20 to 4:50

- 2. Incubation and Brooding. Practical and experimental work in incubation and brooding. A study of the important factors which influence the hatching quality of eggs, both before and during the incubation period. Prerequisite, Poultry 1. One recitation and two laboratory periods, one term. Two credits.
- 3. POULTRY MANAGEMENT. The housing, care, feeding, and management of different breeds, with special attention to Western conditions. Prerequisites, Poultry 1 and Chemistry 1. One recitation and laboratory work according to special appointment. Credit according to amount of work done.
- 4. Breeds and Breeding. A study of the origin and development of the more important breeds and varieties of poultry; practice in judging; a review of the literature on breeding for utility and exhibition purposes. Prerequisites, Poultry 1, Zoology 2 and 3.
- 5. Anatomy, Physiology, and Diseases of Poultry. The work on diseases consists principally of the causes and methods of identification and prevention. Prerequisite, Poultry 1. Two recitations and one laboratory period throughout the year. Three credits.

ART

CALVIN FLETCHER, PROFESSOR OF APPLIED ART J. S. POWELL, ASSOCIATE PROFESSOR OF FINE ART -

FINE ART

1. Free Hand Drawing. Nature study visualization, arrangement, and composition. Three two-hour periods a week, first term. Two credits. Prerequisite to Applied Arts 21.

Tu. Th. Sat. 9:20 to 11

2. Structural Free Hand Drawing. Modeling and design, arranged for students in mechanic arts. Three two-hour laboratory periods throughout the year. Four credits.

Tu. Th. Sat. 11:50 to 1:30

3. History of Art. A lantern-slide lecture course on the evolution and development of painting, sculpture, and architecture. Two lectures throughout the year. Four credits.

Wed. Fri. 11:50

4. Aesthetics. A study of the principles underlying art. Two lectures throughout the year. Four credits.

Wed. Fri. 10:10

5. Studio. Before registering students should consult with instructor in charge.

Sec. a, one credit (three hours for one credit); sec. b, two credits; sec. c, three credits. Students may elect one or more sections of studio work in any of the following subjects:

Drawing. Drawing from the antique, animals, plants, insects, and ornament.

Painting. Painting in oils, water colors, and pastels from still life, landscape, animals, and the draped model.

Sculpture. Modeling in wax and clay, and casting in plaster—from ornament, antique, and life.

Illustration. Book, magazine, and newspaper illustration; cartooning and caricature.

Illustration for Advertising. Designing posters and pictorial advertisements for newspapers, magazines, etc. Criticism of such work.

Illustration for scientific purposes. There is a great demand for men and women especially trained as illustrators in the different divisions of science. The art department is offering, conjointly with the departments of agronomy, botany, and entomology, etc., this course in illustration.

Pictorial Composition and the Critical Judgment of Pictures This is a study of the arrangement of spaces, forms, and color in the composing of a picture. The composition of an esial picture and of mural decorations. This course is especially adapted to the layman, the photographer, and the professional artist.

Daily, 12:40 to 4

APPLIED ART

21. Continuation of Fine Art 1, with special attention to pattern design and design for art needlework. Two laboratory periods, second term. Two credits.

Tu. Th. Sat. 9:20 to 11

22. Household furnishing and design as related to household objects. Lectures and demonstrations with applications in stenciling, block-printing, simple needle craft, and painting. The whole question of beauty as related to the smaller homes is given careful consideration. Three lectures and two laboratory periods throughout the year. Ten credits.

Lec. Tu. Th. Sat. 12:40; lab. Wed. Fri. 1:30 to 4

23. History and development of the house, its furniture and furnishings through the ages. Two lectures throughout the year. Four credits.

Wed. Fri. 1:30

24. Costume design, history, and simple illustration. Two laboratory periods throughout the year. Four credits.

Wed. Fri. 8:30 to 11

- 25. Interior design and decoration. This course is designed to meet the needs of tradesmen. Wall tinting and decoration, house painting, paper hanging, furnishing, and draping. Hours and credit to be arranged.
- 26. Furniture, ornamental iron design, and decoration, including work in carving, marquetry or inlay, and ornamental metal as applied to hinges, handles, escutcheons, key plates, etc.

Students in this course may emphasize the ornamental iron design or furniture work according to their special interests. Two hours daily throughout the year. Eight credits.

Daily, 11:50 to 1:30

27. Studio. Hours and credits to be arranged with the instructor in charge.

Sec. a, one credit (three hours' work for one credit); sec. b, two credits; sec. c, three credits.

Students may elect one or more sections of work from any of the following lines:

Pottery, including throwing, building, turning, casting, glazing, and decoration.

China decoration and design, including tinting, grounding, gold lustre, enameling, firing, etc.

Copper, brass, and silver smithing and jewelry. The underlying principles of metal treatment, including raised forms, filigree, soldering, and repousse, carving, engraving, beading, and enameling.

Basketry, weaving, and beadwork.

Leather work and bookbinding; tooling, etching, piercing; dyeing, etc.

Show cards and sign writing.

Advanced fabric decoration, combining block-printing, stenciling, and needle craft.

Architectural Composition. The study of architectural styles and composition of exterior and interior details, and landscape gardening.

Daily, 11:50 to 4

Courses 21, 22, 23, and 24, are designed especially for the home economics work; courses 25 and 26, for mechanic arts work.

BACTERIOLOGY

Professor Greaves Mr. Smith

1. General Bacteriology. The preparation of media, sterilization, staining, classification, general biology, cultural characters of typical forms, quantitative and qualitative methods of examination; function, distribution, cultivation, and isolation of important forms. The relation of bacteria to the various phases of agriculture receives careful consideration. Two lectures and two laboratory periods, each term. Four credits.

Lec. Wed. Fri. 11:50; lab. Wed. Fri. 2:20 to 4:50

2. Household Bacteriology. After a brief survey of bacteriological methods and the biological characters of typical forms, the bacteria are studied in relation to household economy: bacteria in milk, water, and other foods; milk and water contamination; effects of cooling and pasteurization upon milk; yeasts, molds, and fermentation; bacteriology in relation to canning and preservation; thermal death point of important household species; action of disinfectants. Two lectures and two laboratory periods, first term. Four credits.

Lec. Wed. Fri. 8:30; lab. Tu. Th. 2:20 to 4:50

3. Pathogenic Bacteriology. A course covering the fundamentals of the subject: morphology, classification, biology, distribution, function, cultural and staining characters, methods of cultivation, theories of immunity, and the principles of applied bacteriology. A discussion of disease-producing organisms Lectures and laboratory work, one term. Three credits.

Not given in 1914--1915.

4. Soil Bacteriology. A course covering the principles of soil bacteriology and fitting the student for original investigation: exercises involving questions of the relation of depth, moisture, character of soil temperature, chemical reaction, and aeration to bacterial life; ammonification, nitrification, denitrification, nitrogen fixation, cellulose fermentation, soil inoculation, including the isolation, cultivation, and detailed examination of the organisms causing the changes. Chemical methods of interpreting bacterial fermentations are studied in considerable detail. Prerequisite, Bacteriology 1. Laboratory work, lectures, and reports. Six hours, second term. Three credits.

Tu. Th. 2:20 to 4:50

5. Dairy Bacteriology. A course covering the principles of dairy bacteriology. A consideration of the bacteria of milk, butter, and cheese; infectious diseases in their relation to the dairy; contamination by air, water, and utensils; desirable and undesirable fermentations. Prerequisite, Bacteriology 1. Laboratory work, lectures, and reports, first term. Three credits.

Tu. Th. 2:20 to 4:50

6. Research Work. The laboratory and library facilities are especially arranged to meet the needs of advanced students desiring to undertake bacteriological investigation in agriculture household science, the industries, sanitary science, and veterinary science. Time and credit to be arranged.

See Physiology, and Physiological Chemistry, page 130, for related work.

BOTANY

Professor Hill Mr. Richards Mr. Cook

1. General Botany. A study of the nature and function of plant structure, and of the types of plants from lowest to highest, including the principles of classification and the relation of plants and crops to their environment. Two lectures and two laboratory periods throughout the year. Eight credits.

Prerequisite for all other courses in botany.

Section 1. Lec. Wed Fri. 8:30; lab. Wed. Fri. 2:20 to 4:50 Section 2. Lec. Wed. Fri. 10:10; lab. Tu. Th. 2:20 to 4:50

Scientific Drawing (Art 5) should precede or accompany this course. Laboratory sections limited to thirty students.

2. Flowering Plants, This course is designed to teach students to know our common plants and their relationships. Examples from the most representative plant families are studied in detail. Special emphasis is given to economic plants. Two laboratory periods a week. Twelve weeks in the fall and in the spring. Three credits.

Mon. 9 to 3.

3. Histology. Includes a study of the cell and plant tissues, together with histological technique, sufficient to prepare permanent mounts. Two lectures and two laboratory periods, second term. Four credits.

Not given in 1914--1915.

4. PLANT PHYSIOLOGY. A study of water relations; nutrition; food products, their manufacture and assimilation; enzyme action; respiration; fermentation; toxicity; growth; growth movements; temperature and light relations; reproduction and plant propagation, etc. Two lectures and one laboratory period through-

out the year. Six credits. Prerequisites, Botany 1 and Chemistry 3. (Chemistry 3 may accompany the course.)

Lec. Wed. Fri. 9:20 Lab. Section 1. Tu. 2:20 to 4:50 Lab. Section 2. Th. 2:20 to 4:50

5. PLANT PATHOLOGY. A general study of the history, nature, cause and control of plant diseases. One lecture and two laboratory periods throughout the year. Six credits.

Lec. Wed. 1:30; lab. Wed. Fri. 2:20 to 4:50

6. Economic Botany. A course considering food, fibre, medicinal and spice plants, and their principal products with reference to the industries. Two lectures and one laboratory period, one term. Three credits. Prerequisites, Botany 2 and 4.

Not given in 1914--1915.

7. Ecology. A study of the relation of temperature, moisture, light, soil, and the other environmental factors to vegetation and the structural modification of plants adapted to various conditions. Two lectures, first term. Two credits. Prerequisite. Botany 1.

Tu. Th. 12:40

8. Crop Ecology. A continuation of Course 7, in which special attention is given to the relation of the various environmental factors to the production of forest and grass land, wheat, corn, potatoes, sugar beets, peaches, apples, garden truck, cotton, tobacco, sugar cane, and other temperate and subtropical crops. Two lectures, second term. Two credits. Prerequisite, Botany 1

Tu. Th. 12:40

9. Forestry. A general course considering the principles of forest management, forest conditions and possibilities in Utah and the United States; the relation of the forest covering to the conservation of water, forest range plants and conditions, the principal timber trees of Utah and the United States, and proper methods of cutting and of handling timber. Prerequisites, Botany 1, 2, 4, and 7.

Not given in 1914--1915.

10. Seminar. For advanced students. A review of current literature. One hour a week. Two credits. Required of juniors and seniors in botany.

Fri. 1:30

11. Research. Students specializing in botany are given opportunity in their junior and senior years to do original investigation. Credit according to time.

CHEMISTRY

Professor Stewart
Professor Porter
Assistant Professor John Stewart
Mr. Hirst

1. General Chemistry. This course deals with the fundamental theories of chemistry, and their applications to the arts and manufactures. The laws of chemical combinations, the writing of reactions, and the solving of chemical problems are given careful consideration. Three recitations and two laboratory periods throughout the year. Ten credits.

Sec. 1. Lec. Tu. Th. Sat. 11:50; lab. Tu. Th. 2:20 to 4:50 Sec. 2. Lec. Tu. Th. Sat. 12:40; lab. Wed. Fri. 2:20 to 4:50

- 2. Organic Chemistry. A brief survey of the more important reactions and compounds of the fatty and aromatic series of hydro-carbons and their derivatives. Special attention is paid to the chemistry of the fats, the carbohydrates, the proteins, the amino acids, and the dyes. Three recitations and two laboratory periods, first term. Five credits.
- 3. Advanced Organic Chemistry. In this course a systematic study is made of the compounds of carbon from the point of view of systematic organic chemistry. This course is designed

for students who intend to make chemistry a profession. Five recitations, first term. Five credits.

Daily. Sec. 1. 8:30; sec. 2. 9:20

4. Advanced Qualitative Analysis. This is mainly a laboratory course in qualitative analysis. One lecture and two laboratory periods throughout the year. Six credits.

Lab. Wed. Fri. 2:20 to 4:50; lec. Wed. 11:50

5. Soils. A study of the methods of the analysis of soils in their relation to crop production; soils of the arid and humid regions; akali soils, their nature and composition, utilization and reclamation; soil fertility and methods of maintenance; the value, composition, and preservation of barn-yard manure. Prerequisite, Chemistry 1. Five hours, second term. Five credits.

Daily. Sec. 1. 8:30; sec. 2. 9:20

6. QUANTITATIVE ANALYSIS. After becoming somewhat familiar with the common methods of quantitative analysis, the student analyzes various products; such as, milk, butter, etc. Three laboratory periods throughout the year. Six credits.

Tu. Th. Sat. 2:20 to 4:50

- 7. HISTORY OF CHEMISTRY. Two lectures a week throughout the year. Four credits.
- 8. INDUSTRIAL CHEMISTRY. Lectures and assigned reading on special chemical industries; e. g., the manufacture of sulphuric acids, soda, commercial fertilizers, lime and cement, glass and porcelain, pigments, sugar, starch, alcohol, soap, and explosives. Prerequisite, Chemistry 1. Three hours throughout the year. Six credits.
- 9. Research Work. The laboratories of the College and the Experiment Station are open to students with the necessary preparation who desire to pursue independent studies in chemistry. The research carried on by the chemistry department of the Experiment Station is of great aid to students engaged in the solution of scientific problems. Time and credit to be arranged with the instructor.

- 10. Special Courses in Quantitative Analysis. Courses are offered in special phases of quantitative analysis to students who are qualified: a. water analysis; b. food analysis; c. soil analysis; d. urine analysis; e. gas analysis. Time and credit to be arranged with the instructor.
- 11. Seminar. Members of the chemical faculty and senior students meet once a week for a discussion of assigned problems in chemistry.

DAIRYING

Professor Carroll Assistant Professor G. B. Caine Mr. Bingham

a. FARM DAIRY PRACTICE. An elementary practical course dealing with the secretion and composition of milk, the sampling and testing of milk and cream, and the making on the farm of butter and cheese. Two lectures and one laboratory period. Three credits.

Lec. Wed. Fri. 10:10; lab. Wed. 11:50 to 2:20

1. ELEMENTS OF DAIRYING. The secretion and composition of milk; testing for fat, acid, and adulterants; dairy sanitation; pasteurization; separation; making of butter and cheese. Prerequisite, Chemistry 1. Two lectures and one laboratory period, second term. Three credits.

Lec. Wed. Fri. 11:50; lab. Fri. 12:40 to 2:20

3. Dairy Farm Management. This course consists of a brief review of the various breeds of dairy cattle, and methods of selecting them and starting a dairy herd. Each student is required to submit an original plan of a dairy farm, estimating the values of the different sections of property, the expense of operation, and profits to be derived from the business. Prerequisite, Animal Husbandry 2. Two lectures throughout the year. Two credits

Wed. Fri. 1:30

- 4. Buttermaking. A course designed to meet the needs of creamery men. Prerequisite, Dairying 1. One lecture and two laboratory periods throughout the year. Six credits.
- 5. Cheesemaking. A course for cheese factory operators. A study of the manufacture of the different kinds of cheese. Prerequisite, Dairying 1. One lecture, and one laboratory period of six hours throughout the year. Six credits.
- 7. Research Work. A study of various important dairy subjects; a digest of recent dairy work of the experiment stations. Only advanced students are allowed to take this course. One hour throughout the year. Two credits.

Sec Animal Husbandry, page 75, for related work.

DOMESTIC ART

Assistant Professor Cook Miss Kerr

c. Dressmaking. This course includes the making and use of patterns and the choosing and economical cutting of materials. Each student makes a skirt and a waist of woolen or silk material, and also a fitted lining. Prerequisites, first-year high school sewing and Art 2. Eight hours, first term. Three credits.

Tu. Th. Fri. Sat. 9:20 to 11

d. Dressmaking. A continuation of course c. Each student fits and finishes a one-piece gown. Eight hours, second term. Three credits.

Tu. Th. Fri. Sat. 9:20 to 11

e. Practical Sewing. This course is designed for students especially interested in practical sewing: the fundamental principles of hand and machine sewing; the care and use of different makes of machines; the drafting of patterns; and the use

of bought patterns. Each student makes an apron, a suit of underwear, and a wash dress. Eight hours throughout the year. Six credits.

1. ART NEEDLE WORK. This course deals with the application of color and design to textiles; the teaching of the fundamental stitches of needlework; the marking of household linen; French embroidery; the designing and making of a sofa pillow cover or table runner. Prerequisites, Art 2 and 4. Six hours, first term. Two credits.

Tu. Th. Sat. 11:50 to 1:30

2. ART NEEDLE WORK. A continuation of course 1. Six hours, second term. Two credits.

Tu. Th. Sat. 11:50 to 1:30

3. Advanced Dressmaking. This course includes the study of materials; their economic, artistic, and hygienic values; dress as a factor in life; history of costume; modeling in paper and crinoline from copies and original designs; the making of two costumes. Prerequisites, Domestic Art c and d, and Art 4. Lectures and laboratory work. Six hours throughout the year. Six credits.

Wed. 9:20 to 11 Wed. Fri. 11:50 to 1:30

4. MILLINERY, ELEMENTARY. This course includes practice in designing and drafting patterns for hats; construction of frames of buckram, rice net, or wire; the covering and furnishing with velvet, silk, nets, straws, etc. Selection of materials as to suitability and durability. Demonstrative lessons in the renovating of foundation materials. Four hours throughout the year. Four credits.

Wed. Fri. 11:50 to 1:30

5. Designing and Modeling. This course includes line and design as adapted to various figures; copying of designs in crinoline or cambric; modeling and working out of original designs in correlation with Art 13. Prerequisites, Domestic Art 3,

Art 2 and 4. Lectures and laboratory work. Four hours throughout the year. Four credits.

Tu. Th. 2:20 to 4

6. ADVANCED MILLINERY. Demonstrative discussions and practical work. Four hours throughout the year. Four credits (Laboratory fee of \$1)

Wed. Fri. 1:30 to 3:10

This course gives emphasis to the making of elaborate millinery, paying special attention to lines and color combinations most suited to the individual. Demonstration in the draping and trimming of hats by each student. Trimmings made of chiffon, elaborate tinsel, velvet, etc. Special attention given to the care, placing, and sewing on of ostrich feathers. Students provide materials for hats, subject to approval of instructor. Prerequisites, Art 2 and 4, and Domestic Art 4.

7. Textiles. The study of the beginning of the textile industry; examination of textile fibres under the microscope; the testing of manufactured materials for adulteration; and the effect of laundry reagents on textiles. Prerequisites, Chemistry 2, and Economics 2. Two laboratory periods, first term. Three credits.

Tu. Th. 11:50 to 1:30

8. Textiles. (Advanced course.) A continuation of course 7. The economic problems involved in the purchase of textiles, and a complete quantitative chemical analysis of wool, cotton, silk, and linen fabrics. Second term. Prerequisite Domestic Art 7.

Tu. Th. 11:50 to 1:30

9. Survey. A critical review of domestic art work as given in other institutions. Three hours, second term. Three credits.

Tu. Th. Sat. 10:10

10. Full Time Course in Dressmaking. This course is planned to give thorough and practical training to those who wish to become seamstresses or dressmakers. The classes are organized in September, November, February, and April, and continue

for nine consecutive weeks. Daily sessions from 9 a. m. to 12 a. m., and from 1 to 5 p. m. All applicants for full time courses should be at least sixteen years of age and experienced in plain hand and machine sewing. The number of students is restricted to twenty; therefore, application should be made at an early date Fee, \$10

The instruction consists of the selecting of materials for house dresses; the drafting, fitting, and making of one house dress or shirt-waist suit; and the drafting and designing of skirts, waists, sleeves, collars, children's clothing, modeling in paper and crinoline, etc.; the study of form and color; the combination of different dress fabrics and trimmings; design and simple hand decoration; the proper selection and use of striped and figured materials; draperies and their uses; consideration of textures best adapted to the reception and evening dress; and the planning, drafting, cutting, fitting, and finishing of at least four one-piece gowns.

ECONOMICS

Professor Thomas Professor Hendricks Mr. Brooke

- 1. ELEMENTS OF ECONOMICS. This course explains the laws of man's economic activity. It is the basis of a scientific understanding of industrial conditions. Some of the topics studied are: economic want, value, rent, wages, profits, interest. Three hours throughout the year. Six credits.
- 2. General Economics. This course treats practically the same subjects as Economics 1, but in a more thorough manner Three hours throughout the year. Six credits.

Tu. Th. Sat. 10:10

3. History of Commerce. Its development in Egypt,

Greece, Rome, Florence, Medieval Europe; the commercial nations of modern times. Three hours throughout the year. Six credits.

4a. Industrial Resources. This course aims to give the student a thorough knowledge of the resources of the United States. Special attention is given to western agricultural, pastoral, mineral, and soil and water resources. First term. Three credits.

Tu. Th. Sat. 1:30

4b. Marketing of Products. The methods now practiced in the organization of the selling branch of industrial and merchandising business. The principal subjects in this field are: publicity, agency, advertising, forms and correspondence, credits, and discounts. Three hours, second term. Three credits.

Tu. Th. Sat. 1:30

- 9. Advertising. The channels of trade and the circulation of newspapers are discussed; the literature and typography of advertising, explained; the advertisements of newspapers and magazines, critically examined. Two recitations a week. Practical work in the Art department. Six credits.
- 12. AGRICULTURAL ECONOMICS. This course deals with the economic principles which underlie farm management, estate management, and agrarian legislation. Especially adapted to western conditions. Three hours, first term. Three credits.

Tu. Th. Sat. 11:50

- 15. A RESEARCH COURSE IN ECONOMICS. Time and credit to be arranged with the instructor.
- 16. College Economic Readings. Discussion of current economic literature. One credit, each term. Open to juniors and seniors.

See Sociology, page 133, for related work.

ENGLISH

PROFESSOR PEDERSEN
MISS HUNTSMAN
MISS KYLE
MR.

Papers written by students for other departments constitute a large part of the theme work required in courses in English.

a. First year high school English, dealing with the principles of elementary correctness in oral and written composition. Five hours throughout the year. Ten credits.

Daily, 1:30

b. Composition and Classics. Second year high school English. Study of classics; oral and written composition, with emphasis on the paragraph. Five hours throughout the year. Ten credits.

Daily, 10:10

c. Third year high school English. Study of classics; practice in the various forms of discourse, oral and written. Three hours throughout the year. Six credits.

Sec. 1. Tu. Th. Sat. 9:20 Sec. 2. Tu. Th. Sat. 10:10 Sec. 3. Tu. Th. Sat. 12:40

6. HISTORY OF ENGLISH LITERATURE. A survey of the chief movements in the literature of Great Britain from the Anglo-Saxon period to the present day. The greater part of the time is given to the post-Elizabethan literature. Three hours throughout the year. Six credits.

Sec. 1. Tu. Th. Sat. 9:20 Sec. 2. Tu. Th. Sat. 11:50

7. Rhetoric. Special attention is given to the forms of prose discourse. The work consists chiefly of themes. Prerequisite, English 6. Two hours throughout the year. Four credits.

Sec. 1. Wed. Fri. 8:30 Sec. 2. Wed. Fri. 9:20 Sec. 3. Wed. Fri. 10:10 8. Advanced Composition. A course designed to develop the writer in the field of his choice. Considerable attention is given to grammatical and rhetorical details. Prerequisite, Eng. 7. Two hours throughout the year. Four credits.

Wed. Fri. 8:30

- N. B. Prerequisite for all the following courses, except 22 and 24, English 6 and 7. Prerequisite, in addition, for 10, 11, 13, 15, and 19, one year of French or German.
- 10. SHAKSPERE. A detailed study of six plays: Hamlet, Othello, The Winter's Tale, Twelfth Night, Antony and Cleopatra, and As You Like It. Collateral reading, Sidney Lee's Shakspere's Life and Works. Three hours throughout the year. Six credits.

Tu. Th. Sat. 1:30

11. The Modern Drama. A study of the stage of today, and of recent and living dramatists. Two hours throughout the year. Four credits.

Wed. Fri. 12:40

12. American Literature from Colonial times to the present, keeping in view contemporary development in English literature. Two hours throughout the year. Four credits.

Tu. Th. Sat. 9:20

- 13. The English Novel. Its origin, development, and most important types. Three hours throughout the year. Six credits. Tu. Th. Sat. 12:40
- 15. General Literature, or elementary comparative literature. A brief study of some of the masterpieces of world literature. Two hours throughout the year. Four credits.

Wed. Fri. 11:50

19. Studies in the Nineteenth Century Poets. A course in literary criticism. Three hours throughout the year. Six credits.

Tu. Th. Sat. 10:10

20. Argumentation and Debating. Practical work in

briefing and debating. Two hours throughout the year. Four credits.

Wed. Fri. 1:30

22. ELOCUTION. First year work in reading and interpretation, for high school students. Three hours throughout the year. Six credits.

Tu. Th. Sat. 12:40

23. Advanced Elocution. For college students. The principles of oral and literary expression, applied in the main to the interpretative study of masterpieces. Two hours throughout the year. Four credits.

Wed. Fri. 1:30

24. Public Speaking. The principles of effective public speaking taught and applied. Practical training in the various forms of public address. Three hours throughout the year. Six credits.

Tu. Th. Sat. 1:30

25. JOURNALISM. A study of magazine and newspaper writing, with special attention to college journalism. Two hours throughout the year. Four credits.

Wed. Fri. 12:10 Alternates with English 11. Not given in 1914--1915.

ENTOMOLOGY

Professor Titus Mr. Hagan

1. Economic Entomology. An elementary course intended to give students a general knowledge of insects and their relation to man and his products, as well as of the best means of controlling injurious insects. Three hours, second term. Three credits.

Tu. Th. Sat. 11:50

2. Systematic Entomology. A course in the structure and classification of insects. Students are required to collect, mount, and identify the more common varieties. The laboratory work consists of dissecting and classifying insects. Two lectures and one laboratory class throughout the year. Six credits.

Lec. Wed. Fri. 10:10; lab. Tu. 2:20 to 4:50

3. Economic Entomology. An advanced course in economic entomology, in which full treatment and special attention are given to insects of the intermountain region. Students are required to become familiar with methods of control used in other regions, and their results. Two lectures and one laboratory period. Three or six credits.

Lec. Wed. Fri. 12:40; lab. Wed. 2:20 to 4:50

4. Entomological Literature. Each student is expected to investigate the literature on some particular insect. The general history of entomology is covered in a series of lectures. Prerequisite, Entomology 2 or 3. Three lectures throughout the year. Six credits. *Alternates with Entomology 5*.

Tu. Th. Sat. 9:20

5. Advanced Entomology. A course of research work for students intending to teach or to go into government or experiment-station work. A thesis on the classification and general economic consideration of some special group is required of each student. Prerequisite, Entomology 2 or 3. Three to six credits. Alternates with Entomology 4.

See Zoology, page .136, for related work.

FARM MECHANICS

Professor F. L. West Assistant Professor Humpherys

1. FARM MACHINERY. A general course dealing with the machines used on the farm, their development, design, construction, operation, draft, durability, and care. The students are

made familiar with mechanical principles and are given practice in handling common farm machinery. Two lectures and one laboratory period, first term. Three credits.

Lec. Wed. Fri. 11:50; lab. Wed. 2:20 to 4:50

2. FARM MOTORS. A detailed study of the most modern types of farm motors. Special emphasis is placed on their care and operation, location and remedies of engine troubles, and the relative costs of the different units of farm power. Prerequisite, Physics 1. Two lectures and one laboratory period, second term. Three credits.

Lec. Wed. Fri. 11:50; lab. Wed. 2:20 to 4:50

3. TILLAGE AND HARVESTING MACHINERY. A detailed study of the various implements used in preparing the land for seed and in cultivating the crop. Considerable practice is given in expert building, operating and adjusting harvesting machinery. Prerequisite, Farm Mechanics 1 or its equivalent. One lecture and one laboratory period, second term. Two credits.

Lec. Fri. 12:40; lab. Tu. 2:20 to 4:50

4. FARM APPLIANCES. The course consists of the study and the application of the fundamental principles involved in babbitting, soldering, pipe fitting, tube-setting for steam boilers, packing valves, rope splicing, belt lacing, etc. One recitation and one laboratory period, first term. Two credits.

Lec. Fri. 12:40; lab. Tu. 2:20 to 4:50

See Agricultural Engineering, page 65, and Physics, page 128, for related work.

FINANCE AND BANKING

PROFESSOR HENDRICKS
PROFESSOR THOMAS

1. Money. A general survey of the laws and forms of money and credit; the money question; the money market; expe-

rience and legislation of recent times. Three hours, first term. Three credits.

Tu. Th. Sat. 8:30

2. Banking. History and theory of banking in the United States and foreign countries; foreign exchanges. Three hours, second term. Three credits.

Tu. Th. Sat. 8:30

3. Public Finance. A course dealing chiefly with the principles underlying public expenditures, revenues, and administration. Three hours, first term. Three credits.

Tu. Th. Sat. 12:40

- 4. Taxation. A study of the methods of federal and state taxation, including the customs and internal revenue duties; income, business, inheritance, general property and corporation taxes. Three hours, second term. Three credits.
- 5. Corporation Finance. A study of corporate incomes, expenditures, debts, and administration. A survey of the laws governing the growth of corporations, and the relation to the State. Three hours, first term. Three credits.
- 6. FINANCIAL AND ECONOMIC HISTORY OF THE UNITED STATES. The principal events of our political life are treated from the standpoint of their economic causation. The history of the tariff, money and banking, agriculture, manufacturing, etc., is taken up. Three hours throughout the year. Six credits.

Tu. Th. Sat. 10:10

7. RAILWAY TRANSPORTATION AND PRACTICE. The development of the railway system, railway finance, railway statistics; the theory of rates, methods of public control in Europe, Australia, and America. Three hours, second term. Three credits.

Tu. Th. Sat. 12:40

FOODS AND DIETETICS

Assistant Professor Saunders Miss Agren

1. Preparation of Food. This course considers the principles of cooking; the buying of foods; the preparation and serving of meals within a given sum of money. Prerequisites or parallels, Chemistry 1 and Botany 1. Two laboratory periods throughout the year. Four credits.

Sec. 1. Tu. Th. 1:30 to 4 Sec. 2. Wed. Fri. 1:30 to 4

2. Experimental and Demonstrative Cookery. This course includes lectures and laboratory work in the chemical composition of foods; the action of heat, cold, and alkali on foods; a study of recipes; cost of materials. Each student plans and gives one demonstration. Prerequisites, Domestic Science 1, Physics 1, Chemistry 2. One lecture and two laboratory periods throughout the year. Six credits.

Lec. Wed. 11:50; lab. Tu. Th. 1:30 to 4

3. DIETETICS AND NUTRITION. This course deals with the principles of human nutrition and the application of these principles to the diets of individuals and families under varying conditions of living. It includes a discussion of metabolism of food stuffs, dietaries and their construction, the relation of diet to health, and the economy of foods. Prerequisite, Chemistry 7. Two lectures and one laboratory period throughout the year. Six credits.

Lec. Wed. Fri. 10:10; lab. Wed. 1:30 to 4

4. Household Chemistry. The analysis of air, water, foods, and fuels. The course includes complete analysis of air, water, milk, cheese, butter, and flour; the detection of adulterants and preservatives; the analysis of fats; theory of saponification; the processes involved in the manufacture of soap; analysis of

leavening agents; and the chemistry of textiles. One lecture and six hours of laboratory work a week throughout the year. Six credits.

5. Pathological Nutrition. A study of the fundamental principles of human nutrition and their application to dietaries, with special reference to the sick and convalescent. The planning of special menus to meet the individual requirements of hospital patients. Prerequisite, Foods 3. Three hours, first term. Three credits.

Tu. Th. Sat. 10:10

6. DIET FOR CHILDREN. A study of the food requirements of children from birth to adolescence. Prerequisite, Foods 3. Three hours, second term. Three credits.

Tu. Th. Sat. 10:10

GEOLOGY

Professor William Peterson

a. Physiography. Topics to be studied include: the earth as a body in space; surface structure; erosion, aggradation, etc.; the atmosphere and the influences of physiographic conditions on the development of an agricultural region. A brief study is made of the common rocks of Cache valley. Two hours throughout the year. Four credits.

Wed. Fri. 11:50

2. General Geology. A comprehensive survey of the field covered by dynamic, structional, and historical geology. Particular attention is paid to the changes the earth's surface is now undergoing and the forces which produce them, as a means of interpreting the past. The course includes laboratory study of the common rocks and rock-forming minerals, with special stress on the soil product resulting from rock disintegration. A part of the

second term's work is given to a careful study of the geological development of the North American continent. Field trips to points during fall and spring with written reports. Prerequisites, Chemistry 1, Zoology 2. Three hours throughout the year. Six credits.

Sec. 1. Tu. Th. Sat. 8:30 Sec. 2. Tu. Th. Sat. 9:20

3. Economic Geology. The first term is given to the study of the non-metals with special emphasis on mineral fertilizers. The second term is devoted to the study of metals, their origin and economic uses. The work of either term may be taken without the other. Prerequisite, Geology 2. Three hours throughout the year. Six credits.

Tu. Th. Sat. 10:10

4. MINERALOGY. A descriptive and determinative study of the more important minerals. The student is furnished with excellent specimens, for both tests and comparisons, of all minerals studied. The course includes a discussion of crystallography and the physical properties of minerals. The work is largely individual laboratory work in blow-pipe analysis and determinative mineralogy. Prerequisite, Chemistry 1. One recitation and two laboratory periods, one term. Three credits.

Lec. Wed. 9:20; lab. Wed. Fri. 2:20 to 4:50

5. Geology of Ground Water. A study of structure to determine the cause of springs, artesian wells, etc., with the object of learning what structural characteristics will yield water, either through tunneling or boring. Prerequisites, Geology 2, Physics 1. Two hours, second term. Two credits.

Wed. Fri. 10:10

6. ADVANCED PHYSIOGRAPHY. Intended for students of college grade who wish to obtain a more complete knowledge of physiographic features and processes than can be given in Geology 1. A careful study of the physiographic development of the United States is made. Lectures are supplemented by field and

laboratory work, and by considerable outside reading. Prerequisite, Geology 2. Two hours, first term. Four credits.

Wed. Fri. 10:10

- 7. Petrology. A systematic study of rocks and the rockforming minerals. Particular attention is given to the origin and formation of the different kinds of igneous rocks and methods for the determination of the minerals which compose them. Prerequisites, Geology 2 and 4, Chemistry 1. Lectures, reading, and laboratory work. Time and credit to be arranged.
- 8. FIELD GEOLOGY. The methods employed in field work and the mapping of a region from geological field notes are carefully studied. During the year the students work out the geology of an assigned area. Lectures, supplemented by reading. Prerequisite, Geology 2. Two recitations, one afternoon field work or laboratory period throughout the year. Credit according to work. Can also be taken in summer school but classes for less than ten students will not be organized for summer work.

Sec Roads, page 132, for related work.

HISTORY

Professor Daines

3. English History. A course covering the history of England to the present time, with but a brief survey of the period before 1485. Special stress is laid on the constitutional and the social development of modern England. Three hours throughout the year. Six credits.

Tu. Th. Sat. 8:30

4. Modern European History. A course covering the history of Europe from the beginning of the eighteenth century. In this course current events receive attention. Three hours throughout the year. Six credits.

Tu. Th. Sat. 12:40

5. HISTORY OF THE AMERICAN WEST. A course dealing with the expansion of the American people westward. Special attention is paid to the economic factors at the bottom of this movement, and the effects of this movement on the country, politically and socially. Utah and the surrounding states are given special consideration. Three hours throughout the year. Six credits.

Tu. Th. Sat. 1:30

- 6. Ancient History. This course deals with the history of the ancient nations that have contributed to the civilization of western Europe. Three hours throughout the year. Six credits. *Not given in 1014--1015.*
- 7. HISTORY OF CIVILIZATION. A broad view of those factors in ancient, medieval, and modern civilization that have been of greatest permanent value in our own day. Two hours throughout the year. Four credits.
- 8. HISTORY OF AGRICULTURE. A general survey of the development of methods of agriculture in ancient and modern times, and the origin of some of the principal farm crops. Three hours during the second semester. Three credits.

Tu. Th. Sat. 10:10

HOME CONSTRUCTION AND SANITATION

Professor Cooper Miss ————

1. Sanitation. A general survey of the principal health problems of the home and community, including a study of vital statistics; cause, carriers, and prevention of disease; sanitary science and arts in relation to air, water, food supply, and to sewage and garbage disposal. Prerequisites, Bacteriology 1 and 2. Two hours, first term. Two credits.

Wed. Fri. 8:30

2. Home Care of the Sick. A course intended to help the student meet conditions in home life in which professional nursing is not required. It includes emergencies, first aids to the injured, and simple procedure in home care of the sick. Prerequisites, Bacteriology 1, Physiology 1. Two laboratory periods. Second term. Three credits.

Wed. Fri. 9:20 to 11

3. House Construction. Includes a study of factors in location of the house; floor plans; principles of floor planning; and construction of materials. Prerequisites, H. S. C. 1 and Art 1. Two hours, second semester. Two credits.

Wed. Fri. 8:30

4. Household Administration. This course deals briefly with the relation of the home to society. It includes a study of: standards of living, cost of living, income and expenditure; savings, service, and management. Prerequisite, Economics 2. Three hours throughout the year. Six credits.

Tu. Th. Sat. 9:20

- 5. Home Laundering. This course includes a study of equipment for the home laundry; laundering processes; methods of cleaning silks, woolens, linen, and cotton; special precautions in handling colored materials, laces, and fine materials; the removal of stains. Prerequisites, Chemistry 1 and 2, and Bacteriology 1. Two laboratory periods, first semester. Two credits.
- 6. Survey. A study of the practical problems in the supervision and management of home economics departments in educational institutions. Two lectures throughout the year. Two credits.

Wed. Fri. 9:20

7. Sanitary Analysis. This course includes a chemical and bacteriological examination of water and milk. Prerequisites, Chemistry 1 and 2, and Bacteriology 1. One lecture and two laboratory periods, second semester. Three credits.

HORTICULTURE

Professor Batchelor Mr. Schweitzer

1. Pomology. The course gives the student a scientific and a practical knowledge of commercial fruit growing,—selection of orchard site, planting, cultivation, irrigation, harvesting and marketing the crop. Three lectures, first term. Three credits.

Tu. Th. Sat. 8:30

2a. Practical Pomology. The theory and practice of the most elementary phases of horticulture; such as, propagation, picking and packing fruit, and elementary work in greenhouse management. Two lectures and one laboratory period, first term. Three credits.

Lec. Wed. Fri. 10:10; lab. Tu. 2:20 to 4:50

2b. Pruning and Propagation. A continuation of Horticulture 2, dealing with the theory and practice of pruning and propagation. Prerequisite, Horticulture 1. One lecture and two laboratory periods, second term. Three credits.

Lec. Wed. Fri. 10:10; lab. Tu. 2:20 to 4:50

3. Bush Fruits. A study of the propagation, culture, harvesting and marketing of small fruits; such as, strawberries, currants, raspberries, grapes. Prerequisite, Horticulture 2. Two lectures, second term. Two credits.

Lec. Wed. Fri. 8:30

4. Vegetable Gardening. A study of the cultivation and economic importance of the various vegetable crops; soils, fertilizers, planting, transplanting, and storage of such crops for home and commercial uses. Two lectures and one laboratory period, second term. Three credits.

Lec. Wed. Fri. 9:20; lab. Wed. 2:20 to 4:50

7. Systematic Pomology. A systematic and detailed study

of the various fruits, giving the student a working knowledge of varieties and the ability to judge fruit exhibits. Prerequisites, Horticulture 1, Botany 2. One lecture and one laboratory period, first term. Two credits.

Lec. Wed. 9:20; lab. Wed. 2:20 to 4:50

8. Landscape Gardening. A study of ornamental plants; methods of grouping and planting; laying out public and private grounds. Prerequisite, Horticulture 2. Two lectures, one laboratory period, second term. Three credits.

Lec. Wed. Fri. 11:50; lab. Fri. 2:20 to 4:50

9. Horticultural Literature. A critical examination of books, bulletins, reports, magazine articles, etc., dealing with special horticultural subjects. Prerequisites, Horticulture 1, Botany 5, and Entomology a. Three recitation periods throughout the year. Six credits.

Tu. Th. Sat. 10:10

10. HISTORY OF HORTICULTURE AND AGRICULTURE. Beginning with mythical Egypt, 2700 B. C., the history and development of these industries are traced through Greece, Rome, and England; finally a general survey is made of the past and present conditions in the United States. Three lecture periods, second term. Three credits.

Tu. Th. Sat. 8:30

LIBRARY WORK

MISS ELIZABETH SMITH
MISS HATTIE SMITH

1. General Reference. Classification and arrangement of books in the Agricultural College library; the card catalogue, the more generally used reference books. "List of Reference Books

in the Utah Agricultural College Library" is used as a text-book. Two hours, first term. Two credits.

Wed. Fri. 10:10

2. Bibliography. Treatment of agricultural, scientific, and technical literature published in the transactions of learned societies, special periodicals, and government publications. Lectures by professors in the special departments of the College; each student compiles a bibliography. Two hours, second term. Two credits.

Wed. Fri. 10:10

MATHEMATICS

Professor Saxer Assistant Professor Humpherys

a. Algebra. A first year course in high school algebra. Five hours throughout the year. Ten credits.

Daily, 9:20

b. Plane Geometry. Three hours throughout the year. Six credits.

Sec. 1. Tu. Th. Sat. 10:10 Sec. 2. Tu. Th. Sat. 12:40

3. AGRICULTURAL MATHEMATICS. A brief practical course in plane trigonometry which places special emphasis on the practical application of the subject to the solution of triangles. This course dispenses with those technical parts of the subject which are of practical importance only to the engineer and the student of advanced mathematics, but it includes the necessary drill in the use of algebra, logarithms, and trigometric tables. Primarily for students in agriculture who desire a minimum amount of math-

ematics as a prerequisite to plane surveying. Prerequisite, entrance mathematics. Three hours, first term. Three credits.

Tu. Th. Sat. 12:40

4. Solid Geometry. Three hours, second term. Three credits.

Tu. Th. Sat. 1:30

5. College Algebra. Three hours throughout the year. Six credits.

Tu. Th. Sat. 9:20

6. Plane Trigonometry. Three hours, first term. Three credits. Prerequisite, Mathematics 5.

Tu. Th. Sat. 1:30

7. Analytic Geometry, Calculus. A one-year course which includes the elements of (a) plane analytic geometry, (b) differential calculus, and (c) integral calculus. Five hours throughout the year. Ten credits. Prerequisites, Mathematics 5 and 6.

Daily, 8:30

8. DIFFERENTIAL EQUATIONS. A brief course in ordinary differential equations. Special emphasis is placed on the solution of practical problems. Prerequisite, Mathematics 7. Two hours throughout the year. Four credits.

Wed. Fri. 12:40

- 9. Descriptive Geometry. See Mechanical Drawing 9.
- 10. General Astronomy. A brief course giving the fundamental facts of astronomy. Prerequisite, Physics 1. Two hours throughout the year. Four credits.

Wed. Fri. 10:10

11. Spherical Trigonometry. Prerequisite, Mathematics 6. Three hours, second term. Three credits.

Tu. Th. Sat. 12:40

MECHANIC ARTS

Assistant Professor Hansen Assistant Professor Pulley Assistant Professor Newey Mr. Swenson

FORGING AND GENERAL BLACKSMITHING

Assistant Professor Newey

1. ELEMENTARY FORGING. Forged articles, each of which has a practical application on the farm and in the shop, are progressively arranged to teach the underlying principles of forging. Staples, repair links, bolts, grab hooks, clevises, stay chains, blacksmith's tongs, cold chisels are typical examples of the work done. Two hours each week are given to the consideration of shop mathematics and technology. Three periods daily, first term. Five credits.

Daily, 8:30 to 11

2. Special Forge Shop Operations. In this course, emphasis is placed upon the use and care of blacksmith tools. Articles such as, swivels, turnbuckles, single-tree clips, ferrules, wrenches, chisels, punches, drills, reamers, pinchers, hammers, and other tools are made so as to illustrate forging with anvil tools, filing, finishing, casehardening, tempering, drilling, counterboring, and brazing. Two hours each week are given to the consideration of shop mathematics and technology. Prerequisite, Course 1. Three periods daily, second term. Five credits.

Daily, 8:30 to 11

3. ADVANCED FORGING. The forgings in this course are chosen to give further practice in the principles taught in Courses 1 and 2. Much time is given to forging and welding tool steel. A few large forging and welding exercises which necessitate the

use of the power hammer are given to familiarize the student with large work. The articles made include a set of anvil tools, a sledge hammer, and a few special carriage forgings. Prerequisite, Course 2. Three periods daily, first term. Five credits.

Daily, 2:20 to 4:50

4. Woodwork. This course is given to prepare the student for general repair work and carriage woodwork. The articles made are selected with the idea of bringing the student in touch with the problems in woodwork, common to a western repair shop. Three periods daily, second term. Five credits.

Daily, 2:20 to 4:50

5. Repair Problems. The common problems met by the mechanic in the repair shop are considered. They include axle and tire setting, resetting of springs, plow work, steel dressing, and horseshoeing. The work is varied to meet the student's needs. Prerequisite, Course 3. Three periods daily, first term. Five credits.

Daily, 2:20 to 4:50

6. Repair Work. Here the student meets actual shop conditions. The College farm implements and vehicles give ample work for practice. Prerequisite, Course 5. Three periods daily, second term. Five credits.

Daily, 2:20 to 4:50

7-8. Carriage Work. Joints and constructions used in carriage and automobile bodies receive attention, the course concluding with the building of an approved vehicle or farm implement. Prerequisites, Course 6, and Mechanical Drawing 4. Three periods daily, two terms. Five credits, each term.

Daily, 2:20 to 4:50

a. Short Course. Selected work from Course 1. This course is arranged for students who cannot spend every day in the shop. It is especially suitable for agricultural and engineering students or for any one who wishes to become familiar with the use

of blacksmith tools. Welding iron and tempering steel are given as much consideration as the time will allow. Six periods a week, each term. Two credits.

Wed. Fri. 8:30 to 11 and 2:20 to 4:50

b. Advanced Short Course. This course is for students who have had some work, but cannot arrange their course to fit our regular schedule. It consists of advanced work selected from the regular courses. Time and credits to be arranged with the instructor.

Any of the above work may be taken in the Practical course and the Winter course.

FOUNDRY WORK. The foundry is operated for demonstration purposes and for the making of castings for the machine department and other departments of the College. If a sufficient number of students apply for foundry work it will run for instructional purposes also.

MACHINE WORK

Assistant Professor Pulley

a. Short Course. This course consists of exercises selected from Courses 1 and 2. It is intended to serve the needs of those studying farm machinery, those who want only an elementary understanding of the subject, and those who have but limited time for the work. Two laboratory periods, including recitation, two terms. Two credits, each term.

Wed. Fri. 2:20 to 4:50

b. Advanced Short Course. Work selected from other courses. Time, credits, etc., to be arranged with instructor.

All courses following come daily, 2:20 to 4:50, and continue through one term each. Laboratory periods, Tu. Wed. Th. Fri., and recitations Saturday. Five credits.

1. Bench and Vise Work. The technical and practical phases of the subject are treated. The materials, tools, and

methods used in the work receive careful attention. Students are required to solve shop problems and obtain other important information relating to speeds of pulleys, drills, emery wheels, diameters of pulleys, length of belts, weights of metals, etc. The practical work includes the making of keyways, keys, hinges, stencil plates, stamp letters, threading bolts and nuts, polishing, scraping bearings, etc. First term.

Daily, 2:20 to 4:50

2. Bench, Planer and Shaper Work. This course consists of soldering, babbitting bearings, valve grinding, buffing, hand turning, planing and shaping flat and angular surfaces, and elementary work on the engine lathe. Calculating cutting speeds, feeds, and other movements regarding the mechanism of the machines, furnishes problems for solution. Prerequisite, Course 1. Second term.

Daily, 2:20 to 4:50

3. Lathe and Milling Machine Work. In this course machine parts; such as, pulleys, bearings, stuffing box glands, bolts, valve and piston rods, eccentrics, and straps are made and the operations involved carefully studied. Students are required to make computations of speeds, feeds, gears for thread cutting, time required in turning out work, etc. Prerequisite, Course 2. First term.

Daily, 2:20 to 4:50

4. LATHE AND ADVANCED MILLING WORK. Shaft couplings, emery and buffing wheel spindles, engine crank shafts, connecting rods, jack screws, spur, bevel, spiral gears, and gang milling are representative of the work of this course. The technology and mathematics of the work are studied. Prerequisite, Course 3 Second term.

Daily, 2:20 to 4:50

5. Automobile Work. This course deals principally with the power plant and transmission system of the gasoline automobile. Students have the privilege of making such parts as cams

and camshafts, valves and plungers, pistons and rings, connecting rods, crank shafts, clutches, change speed gears, differentials, etc. A study of the purpose and action of these parts is made. Prerequisite, Course 3. Second term.

Daily, 2:20 to 4:50

6. Tool Making. The making of small tools; such as, tap and reamer wrenches, taps and dies, reamers, twist drills, mandrels, milling cutters, etc., which affords practice on the grinding machine, constitutes the practical training of this course. The technical information pertaining to this work is required. Prerequisites, Course 4, and a knowledge of hardening and tempering steel. First term.

Daily, 2:20 to 4:50

7. Advanced Tool Making. In this course attention is given to the making and using of jigs and fixtures in relation to the interchangeable manufacture of machinery and to the making of punches and dies for punch press work. Methods of production are studied. Prerequisites, Course 4, and a working knowledge of tool steel. Time course may be arranged with the instructor.

Daily, 2:20 to 4:50

8. Machine Construction. The repair and construction of machinery are taken up in this course. A drill and three lathes have been restored to working condition after damage by fire, and a power hack-saw and a two-and-a-half horse power gasoline engine have been built outright by students. It is the intention to build a model-size steam engine in 1914-15. Prerequisites, Course 4, and a working knowledge of tool steel. First term.

Daily, 2:20 to 4:50

- 9. Machine Construction (continued.) Second term.

 Any of the above work may be taken in the winter courses.
- 10. ELEMENTARY MACHINE DESIGN. A study is made of the various kinds of fastenings; such as, rivets and riveted joints,

bolts and screws, pipe fittings, keys and cotters. Drawings of the designs are required. Prerequisite, a knowledge of mechanical drawing and of the strength of the materials of construction. One recitation and one laboratory period, first term. Two credits.

Wed. Fri. 11:50 to 1:30

11. Machine Design (continued.) The designing of shafting, shaft couplings, bearings, journals, pulleys, spur, bevel and spiral gearing, pistons and rods, constitutes the course. Prerequisite, Course 10. Time and credits, same as for Course 10.

MECHANICAL DRAWING

Assistant Professor Pulley

1. ELEMENTARY MECHANICAL DRAWING. The course consists of drawing plane geometrical figures and making the common geometrical constructions used in drafting operations. It gives practice with drawing instruments and is intended to develop accuracy in using them. One recitation and one laboratory period, first term. Two credits.

Rec. and lab. Wed. Fri. 8:30 to 11

2. Lettering and Applied Geometry. Practice in letter construction, spacing, etc.; in construction of monograms, titles for drawings, border lines, north points, scales; and in making projection drawings. Prerequisite, Course 1, or a working knowledge of geometry. One recitation and one laboratory period, second term. Two credits.

Rec. and lab. Wed. Fri. 8:30 to 11

3. ORTHOGRAPHIC PROJECTION. Practice in the representation of objects on paper in strict accord with practice and the principles underlying orthographic projection. The course embraces the regular coordinate projections, auxiliary projections, sectional views, and graphical solutions connected with the problems commonly met by the mechanic. Prerequisite, Course 2. One recitation and one laboratory period, first term. Two credits.

Rec. and lab. Wed. Fri. 8:30 to 11

4. Orthographic Projection (continued.) The application of its principles in determining true length of lines, angles, sizes and shapes of surfaces, the lines of intersection of planes, solids and developments. Such knowledge is used constantly by mechanics in reading drawings, laying out jack rafters, hoppers, hand rails, finding correct shapes for moulding cutters, and in laying out sheet metal work. One recitation and one laboratory period, second term. Two credits.

Rec. and lab. Wed. Fri. 8:30 to 11

5. One Plane Projection. In this course students have practice in making pictorial representations of objects in isometric, dimetric, oblique, and cabinet projections. Drawing of geometrical solids, framing joints, tables, cabinets, work benches, machine parts, etc., constitutes the work. Prerequisite, Course 3. One recitation and one laboratory period, first term. Two credits.

Rec. and lab. Wed. Fri. 8:30 to 11

6. Working Drawings. The principles obtained in the foregoing courses are applied in making working drawings, including dimensions, notes, title, and other information needed by the workman. The common conventions, blue printing, and commercial practice receive attention. The work can be made to apply to the work the student is pursuing; as, carriage drafting, drawing of architectural details and machine parts. Prerequisite, Course 4. One recitation and one laboratory period, second term. Two credits.

Rec. and lab. Wed. Fri. 8:30 to 11

7. Architectural Drawing and Perspective. The student is required to design a building, and draw the plans, elevations, sections, details, and the perspective of the complete building. One recitation and one laboratory period, first term. Two credits.

Rec. Tu. 9:20; lab. Tu. 2:20 to 4:50

8. Machine Drawing. The course consists of sketching and drawing of machinery with dimensions, notes, and the conventions regularly used in such drawing. Prerequisite, Course 4.

One recitation and one laboratory period, second term. Two credits.

Rec. Tu. 9:20; lab. Tu. 2:20 to 4:50

9. AGRICULTURAL DRAFTING. This course is arranged to meet the needs of agricultural students who wish a general understanding of mechanical drawing. It consists of drawing the various kinds of lines, geometrical constructions, and conventional symbols used in the work; lettering and orthographic projections of objects. Prerequisite, plane geometry. One recitation and two laboratory periods, first term. Three credits.

Rec. and lab. Wed. Fri. 8:30 to 11

10. AGRICULTURAL DRAFTING (continued.) The principles obtained in Course 9 are used in making drawings of fence, and head gates, flumes, cisterns, buildings, etc., and in making plats, maps, and profiles. Tracing and blue printing are also given. Prerequisite, Course 9. One recitation and two laboratory periods, second term. Three credits.

Rec. and lab. Wed. Fri. 8:30 to 11

11. ELEMENTARY DESCRIPTIVE GEOMETRY. Descriptive geometry is the science of mechanical drawing but it is more comprehensive. It develops the power to visualize, analyze, and solve graphical problems, and is of practical value to the mechanic and the engineer alike in reading working drawings and in solving graphical problems that arise in their work. Problems relating to the point, line, plane, and simple solids are taken up. Prerequisite, Course 2 or a working knowledge of geometry and instruments. Three laboratory periods, including recitation hour, first term. Three credits.

Rec. and lab. Tu. Th. Sat. 8:30 to 11

12. Descriptive Geometry (continued.) This course consists of determining tangent planes, sections, intersections, and developments of single curved and warped surfaces, and double curved surfaces of revolution. Practical problems; such as, laying out patterns for various kinds of reducers, transition pieces, loco-

motive stacks, and screw conveyor designs, etc., are given. Prerequisite, Course 11. Three laboratory periods, including recitation hour, second term. Three credits.

Rec. and lab. Tu. Th. Sat. 8:30 to 11

N. B.—The necessary materials and instruments for mechanical drawing can be purchased at the College bookstore for, from fifteen to twenty-five dollars.

WOODWORK

Assistant Professor Hansen Mr. Swenson

1. Fundamentals. This course embraces the first principles of woodwork; such as, scarfing, mortising, dovetailing, and jointing, all of which progressively illustrate the essentials of the art. The proper way of handling the tools is emphasized. The course includes two lectures a week in technology and shop mathematics. Three periods daily, first term. Five credits.

8:30 to 11

2. Fundamentals (continued.) Making of panels, sashes, doors, shelves, together with thorough practice in tool sharpening, constitutes the work of this course. Prerequisite, Course 1. Three periods daily, one term. Five credits.

8:30 to 11

- 3. Machine Work. The care and use of wood working machinery, and the building of a modern work bench. Prerequisite, Course 2. Three periods daily, first term. Five credits 2:20 to 4:50
- 4. Machine Work (continued.) Wood turning. A thorough course in elementary turning, and advanced turning of table legs, balusters, newels, and fancy objects. Students also make a tool chest. Prerequisite, Course 3. Three periods daily, second term. Five credits.

2:20 to 4:50

5. Cabinet Making and Housebuilding. The making in fir of settees, book cases, desks, or chairs; staining and finishing; housebuilding, consisting of calculating the bill of lumber, framing, roofing, and outside wood work. Prerequisites, Course 4, and Art 26. Three periods daily, first term. Five credits.

2:20 to 4:50

6. Cabinet Making and Housebuilding (continued.) Making and setting door and window frames, fitting and hanging doors and windows, or making furniture in oak,—such as, Morris chairs, desks, or dining tables, stained and finished. Three periods daily, second term. Five credits.

2:20 to 4:50

7. FANCY CABINET MAKING OR INTERIOR FINISHING. The making of furniture in mahogany or other expensive wood; veneering, inlaying, and hand polishing, or interior finishing of a house. Three periods daily, first term. Five credits.

2:20 to 4:50

8. Continuation of Course 7.

2:20 to 4:50

- 9. Pattern Making. This course consists of the making of patterns in plain pipes, elbow joints, arc boxes, grates, pulleys, and spur gears, thus giving to the student the elementary knowledge of this work. Prerequisite, Course 4. Six periods a week, one term. Two credits.
- 10. Wood Carving. The carving of simple articles in straight and curved lines, simple conventional ornaments, and natural foliage, together with the sharpening and setting of tools, constitutes the work of this course. Six periods a week, one term. Two credits.
- a. Short Course. Selected work from Course 1. This course is arranged for students who cannot spend every day in the shop. It is especially suitable for agricultural and engineering

students, and for any who wish to become familiar with tools in order to do simple woodwork on the farm and around home. Six periods a week, first term. Two credits.

Sec. 1. Tu. Th. 8:30 to 11 Sec. 2. Tu. Th. 2:20 to 4:50

b. Advanced Short Course. This course is for students who have had some work, but cannot fit our regular schedule. It consists of advanced work selected from the regular courses. Time and credits to be arranged with the instructor.

Tu. Th. 8:30 to 11

Any of the above work may be taken in the Practical or the Winter course.

MILITARY SCIENCE AND TACTICS

Lieutenant Eugene Santschi, Jr., U. S. Army

Military instruction at the College is not a matter of choice with the authorities or the students. The Congress of the United States requires this instruction in return for large appropriations. The object of the instruction is to qualify students for commissions in the National Guard or volunteer army. All able-bodied male students of the College are enrolled in the Military department, during three years of their course. The satisfactory completion of both the practical and the theoretical work prescribed for any one year entitles the student to two credits.

Military drill improves the habits and manners of the student, develops him physically, and gives him that military knowledge which every citizen should possess that he may render intelligent aid to his country or state in time of need. It cultivates a manly spirit, ready and implicit obedience, respect for authority and restraint—all qualities of inestimable value to a young man in whatever calling he may choose.

The military body of the College consists of one battalion of

three companies and a band of 28 instruments. The organization, drill, and administration are the same as in the regular army. The appointment and promotion of officers and non-commissioned officers in the battalion is made by the Commandant of Cadets upon approval by the President of the College, after a careful consideration of the following points: knowledge of drill and other duties as determined by examination, and practical application of this knowledge on the drill field; zeal, soldierly bearing and aptitude for command; character, military record; and general standing in the College.

Paragraph 20, General Orders No. 155, War Department, July 24, 1907, directs that, "Upon occasions of military ceremony in the execution of drills, guard duty, and where students are receiving any other practical military instruction, they shall appear in the uniform prescribed by the institution." The College has adopted a very neat and serviceable uniform which may be purchased through the College secretary at actual cost, about sixteen dollars. Students, when they register, must be prepared to deposit five dollars towards the purchase of their uniform.

There will be five fifty-minute periods of instruction each week throughout the year. This is required of all cadets, except band members, during three years of their attendance. The military instruction of the band will average one period a week.

PRACTICAL INSTRUCTION

(An average of three periods a week.)

The instruction consists of infantry drill—school of the soldier, squad, company and battalion in close and extended order; ceremonies of guard mounting, parade, review and escort of the Color Field. Service Regulations—marches, outposts, advance guard, rear guard and combat exercises. Small arms, Firing Manual—Position sighting and aiming drills; indoor and outdoor target practice.

Tu. Th. Sat. 11

THEORETICAL INSTRUCTION

(An average of one period a week.)

Recitations in infantry drill regulations, small arms firing regulations, field service regulations, guard duty and administration; lectures on military subjects.

Sec. 1. Tu. 12:40 Sec. 2. Th. 12:40 Sec. 3. Sat. 12:40

MODERN LANGUAGES AND LATIN

Professor Arnold

FRENCH

1. First Year French. Fraser & Squair's French Grammar and Guerber's Contes et Legendes form the basis of the grammatical and conversational work. Four hours throughout the year. Eight credits.

Tu. Wed. Th. Fri. 10:10

2. Second Year French. Francois French Composition is the basis of a grammatical review of writing in French. Lavisse's Histoire de France is used as subject matter for conversation, and the work in reading consists in translating works of the more important nineteenth century authors. Prerequisite, French 1. Three hours throughout the year. Six credits.

Tu. Th. Sat. 9:20

3. Third Year French. Four elective one-hour courses: a—conversation; b—rapid reading of French periodicals on horticulture, stock-breeding, or domestic science subjects; c—rapid reading of French classics, varying each year; d—French periodicals on French home life. Course 3b may be given in two divisions to suit those who elect it. Students may elect any part or all of French 3. Each division counts two credits.

Fri, 9:20

GERMAN

- 1. FIRST YEAR GERMAN. Grammar, conversation, and reading of easy texts. Four hours throughout the year. Eight credits. Tu. Wed. Th. Fri. 8:30
- 2. SECOND YEAR GERMAN. Bernhardt's German Composition is finished and work in original German compositions is begun. Many texts are rapidly read, selected from nineteenth century authors, together with one scientific text. Three hours throughout the year. Six credits.

Tu. Th. Sat. 11:50

- 3. THIRD YEAR GERMAN. Three elective one-hour courses: a—conversation, including the learning of a part in a one-act play; b—scientific German, with private reading in different subjects according to the course of each student; c-a study of modern German drama. Students may elect any part or all of German 3. Each division counts two credits.
- 4. Beginner's Course. A beginner's course in German for teachers, meeting on Saturday. Work covered depends on the nature of the class. Two or more credits.

Sat. 10:10

SPANISH

- 1. FIRST YEAR SPANISH. Giese, First Year in Spanish; Matzke, First Spanish Readings; Valdes, Jose; Alarcon, El Capitan Veneno. Two hours throughout the year. Four credits.
 - Wed. Fri. 1:30
- 2. SECOND YEAR SPANISH. Ford, Spanish Composition; Picatoste, Historia de Espana, as basis for conversation; rapid reading of such modern texts as Valera's Commendador Mendoza; Galdos, Dona Perfecta and Electra; Brenton, Quien as ella?; and one classical play. Three hours throughout the year. Six credits.

LATIN

1. First Year Latin. Collar and Daniel, First Year Latin; Viri Romae. Drill on essentials of Latin grammar; comparison with English grammar; acquiring of vocabulary; English words derived from Latin; selections for reading. Four hours throughout the year. Eight credits.

Not given in 1914--1915.

2. Second Year Latin: Greenough, D'Ooge, and Daniel, Second Year Latin; D'Ooge, Latin Composition Based on Caesar; Bennett, Latin Grammar; selected readings from Part I, Second Year Latin; an equivalent of four books of selections from Caesar; oral and written composition. Attention is give nto etymology of English derivatives and cognates; accuracy and facility in translating into idiomatic English; sight translation. Three hours, throughout the year. Six credits.

MUSIC

PROFESSOR THATCHER, Choir, Theory and Composition, Voice MR. Spicker, Orchestra-conducting, Violin MR. Clark, Harmony, Pipe Organ MRS. LINNARTZ, Solfeggio, Voice MISS Underwood, Piano Ensemble, Piano

Class work in music is free; a small laboratory fee is charged in some courses.

1. a. Notation and Solfeggio. Includes exercises in melody writing, and simple chord formation. (From text.) b. Applied music either in choir or band. Four hours throughout the year. Eight credits.

Tu. Th. Sat. 11:50

2. a. HISTORY AND APPRECIATION OF MUSIC. (From text.) b. Applied music either in choir or band. (N. B. A small laboratory fee is charged.) Four hours throughout the year. Eight credits.

Tu. Th. Sat. 12:40

3. a. Elementary Harmony, Exercises in melody writing. (Text used.) Two recitations a week; home study, 8 hours as a minimum. (At least two years of piano study or its equivalent must have been pursued before attempting this course.) b. Applied music: 1. individual work, home study, 6 hours at least; 2. ensemble, 2, 3, or 4 hours of home study at least. Five or six hours throughout the year. Ten credits.

Tu. Th. Sat. 1:30

Note—for Courses 4, 5, and 6, the home study increases over Course 3.

- 4. a. Advanced Harmony and Analysis. Ear training. (Text used.) b. Applied music, individual and ensemble. Prerequisite, Music 3. Five or six hours throughout the year. Ten credits.
- 5. a. COUNTERPOINT AND SMALL FORMS. (Text used.)b. Applied music, individual and ensemble. Prerequisite, Music4. Five or six hours throughout the year. Ten credits.
- 6. a. CANON AND FUGUE. Large forms. (Text used.) b. Applied music, individual and ensemble. Prerequisite, Music 5. Five or six hours throughout the year. Ten credits.
- 7. a. Instrumentation, first term. b. Conducting, second term. c. Study of biographies and works of German and French composers, with public rendering of important compositions. Four hours throughout the year. Eight credits.

This course is for graduates.

8. Original Composition. a. The student practices com-

posing in art songs, anthems, and cantata forms; also in small and large instrumental combinations,—as, pianoforte-four hands, trio, quartet, and orchestra. b. Ensemble (advanced.) Prerequisite, Music 7. Four hours throughout the year. Eight credits.

Ensemble. Choral practice, in choir, 2 hours a week; glee, 2 hours a week; quartet, 2 hours a week. Orchestral practice: orchestra, 4 hours a week; quartet, 1 hour a week; trio (pianoforte and strings), 1 hour a week. Band, 3 hours a week (one drill). Pianoforte class, 4, 6, and 8 hands, 2 hours a week.

Band. Tu. Th. Sat. 11 Choir. Tu. Th. Sat. 11 Orchestra. Tu. Th. 4 Ensemble Piano. Wed. 4 Weekly Examinations. Fri. 4

Note—Individual work may be taken in voice, violin, piano, or orchestral instrument, either in the College or outside, but the work must cover the appended course. Examinations are held once a month, at which all registered students are expected to play or sing. The student pays the teacher's fee.

INDIVIDUAL WORK. Embraces the following:

Voice Culture and Singing. Must have a playing knowledge of piano or violin, i. e., two years of serious study; breathing; study of vowel forms, scales, vocal exercises of Sieber, Vaccai, Conconne, Abt, Marchesi, etc.; songs (modern and classic), arias from opera, oratorio.

Violin. Two years' study presupposed. First year, David or DeBeriot, Book II; easy solos. Second year, Kreutzer, 42 exercises, medium grade. Third year, Fiorilli studies; Rode, 24 exercises; Concertos Viotti, Rode. Fourth year, Rovelli, Gavinies, Mendelssohn, Bruch.

Pianoforte. Two years' study presupposed. First year, Gurlitt, Beyer, Czerny, Schmitt, or Biehl. Second year, Bertini, Clementi, Kuhlau, Loeschorn, Heller. Third year, Czerny, Dorn, Hiller, Gobbaert, Craemer, Mozart, Haydn, and others. Fourth

year, Craemer, Kessler, Clementi, Kullak, Gradus ad Parnassum, Schubert, Mendelssohn, Chopin.

Orchestral Instrument. Corresponds as nearly as possible to courses of study on violin. (Must combine with study of the solo instrument, two years on piano.)

Tuition, (private instruction.) Term of fifteen weeks, payable in advance.

Voice.

Fifteen lessons: beginners, \$15; advanced, \$22.50

Piano.

Fifteen lessons: first year, \$15; second year, \$22.50

PIPE ORGAN.

Fifteen lessons: \$22.50

VIOLIN.

Fifteen lessons: \$22.50

VIOLONCELLO.

Fifteen lessons: \$15

CLARINET, CORNET, AND BAND INSTRUMENTS.

Fifteen lessons: \$10

PHYSICAL EDUCATION

Professor Teetzel Assistant Professor Johnson Miss Ballantyne

It is the aim of the department of physical education to foster hygienic habits among the students and so direct their exercise that they may have a physical development fit to support and make efficient the mental development which they seek in attending the Institution. This is accomplished, first, by giving them the needed opportunity for gymnastic exercises; secondly, by encouraging athletic games, thereby stimulating the students' interest in their physical efficiency and in the pleasure of physical activity; thirdly, by giving them a guiding knowledge of the principles of physical education. Each student is entitled to a careful physical examination, upon which, as far as possible, his work is based. Students are required to wear regulation gymnasium suits and shoes.

FOR MEN

- 1. FOOTBALL.
- 2. Swimming. a. beginners. b. advanced students.
- 3. Basketball. a. college team. b. class teams.
- 4. Wrestling.
- 5. Baseball.
- 6. Track Work.
- 7. FIRST AID TO THE INJURED. Two hours, first term.

FOR WOMEN

At least two college courses of physical education are required of all college women. The courses are both creative and recreative, remedial and preventive. Physical examinations are given each woman some time during the first three weeks of the first semester, at the end of which instruction begins. The work is based as far as possible on the findings of the examination.

Individual attention is given to women who do not feel strong enough or well enough to do regular class work, and to those who need exercise for correction or prevention of slight deformities, faulty postures, etc.

Physical Education 1. This course is required of all college women. It consists of regular formative and corrective body building, and is supplemented by one lecture period a week, for which outside reading is required on personal hygiene, sex hygiene, physiology of exercise, and first aid to the injured. Three floor periods. One lecture period. Two credits.

Tu. Th. Sat. 11

PHYSICAL EDUCATION 2. Physical Education 1 or its equivalent is a prerequisite. The course consists of the technique of dancing, a study of rhythm, and the fundamental principles from which all forms of dancing are built. Simple dances, dance combinations, and social dancing. Three floor periods. One credit

Tu. Th. Sat. 2:20

Physical Education 3. Advanced dancing. The work of this course is based upon Physical Education 2. Dance composition, interpretative dancing, and the relation of dancing to music. A number of the chalif dances are studied. Three floor periods. One credit.

Tu. Th. Sat. 11:50

PHYSICAL EDUCATION 4. Athletics. This course includes in and out-of-door games,—baseball, basketball, volley ball, hockey, cross country running, tennis, polo, and swimming. It governs competitive games and tournaments and has to do with the awarding of honors for women's athletics. No credit.

Daily at 4

Swimming. The swimming pool is open to women at certain periods daily. Instruction is given in swimming, diving, and water sports.

PHYSICS

Professor F. L. West Mr. ———

1a. General Physics. A first course in the elements of physics, including a study of mechanics, heat, electricity and magnetism, sound, and light. The lectures are illustrated by appropriate experiments and lantern slides. Prerequisite, one unit of mathematics. Three recitations and one laboratory period throughout the year. Eight credits.

Lec. Tu. Th. Sat. 8:30; lab. Wed. Fri. Sat. 2:20 to 4:50

1b. General Physics. A descriptive course in physics for home economics and commercial students, emphasizing the applications of physics in modern life. Three recitations and one laboratory period, throughout the year. Eight credits.

Lec. Tu. Th. Sat. 9:20; lab. Sat. 2:20 to 4:50 or Fri. 11:50 to 2:20

2. General College Physics. A survey of the whole field of physics in order to lay a thorough foundation for the subsequent study of this and related subjects, with special emphasis on principles most useful to the student of agriculture and agricultural engineering. Prerequisite, high school physics, and two units of mathematics. Three recitations and two laboratory periods throughout the year. Eight credits.

Lec. Tu. Th. Sat. 11:50; lab. Tu. Th. 2:20 to 4:50

3. ELEMENTARY APPLIED MECHANICS, THERMODYNAMICS, STEAM AND GASOLINE ENGINES. Prerequisite, Physics 2. Three recitations throughout the year. Six credits.

Not given in 1914--1915.

4. APPLIED ELECTRICITY. Two recitations and one laboratory period throughout the year. Six credits. Prerequisite, Physics 1.

Not given in 1914-1915. (See Physics 9.)

5. Chemical Physics. Lectures on some of the fundamental laws and theories of chemistry and physics, including the atomic theory; kinetic theory of gases; gaseous, liquid, and solid states; solutions; thermo-chemistry; electro-chemistry; radioactivity; and the electron theory. Prerequisites, elementary chemistry and physics. Two lectures and one laboratory period throughout the year. Six credits.

Lec. Wed. Fri. 8:30; lab. Tu. or Th. 2:20 to 4:50

6. ELEMENTARY MATHEMATICAL PHYSICS. A critical review of elementary mathematics with its application in physics, chemistry, and engineering. Two recitations throughout the year. Four credits.

Not given in 1914--1915.

- 7. Advanced Laboratory Work. Prerequisite, Physics 2. Time and credit to be arranged.
- 8. Meteorology, Light, and Sound. A general discussion of the atmosphere: its composition and movements; the nature of storms, winds, frosts, dew, cloud, fog, etc.; special study of the methods of weather observations, predictions, and frost warnings. The second term is devoted to a study of light and sound. Prerequisite, elementary physics. Two recitations throughout the year. Four credits.

Lec. Wed. Fri. 10:10

9. ELECTRICITY AND MAGNETISM. Two lectures throughout the year. Four credits.

Lec. Wed. Fri. 12:40

See Farm Mechanics, page 96, for related work.

PHYSIOLOGY AND PHYSIOLOGICAL CHEMISTRY

Professor Greaves Mr. Smith

1. Physiology. A discussion of movement, sensation, circulation, respiration, digestion, absorption, metabolism, and excretion. Questions of hygiene and sanitation are also considered. Three hours, first term. Three credits.

Tu. Th. Sat. 9:20

2. DIGESTION, ABSORPTION, AND METABOLISM. An advanced course in special phases of physiology, dealing mainly with digestion and related subjects. Three lectures, second term. Three credits.

Tu. Th. Sat. 9:20

3. Physiological Chemistry. This course deals with the chemical interpretation of the transformations going on in the plant and animal organism. Three lectures, second term. Three credits.

Tu. Th. Sat. 10:10

4. Physiological Chemistry. A laboratory course which

may accompany the preceding course. Six hours' laboratory work a week, second term. Two credits.

See Bacteriology, page 81, for related work.

POLITICAL SCIENCE

Professor Thomas Professor Daines Mr. Brooke

1. Government. Our European ancestors, origin of states and state institutions, English and American governments compared, state and foreign service, the treasury, money and coinage, banks, the post office and executive departments, legislation, the constitution, federal and state powers, political parties, party issues. Three hours throughout the year. Six credits.

Tu. Th. Sat. 9:20

- 2. Industrial and Commercial Law. A study of the elementary principles of law relating to common business transactions, including contracts, sales, promissory notes and bills of exchange, contracts of common carriers, agency, partnership and corporations. Three hours throughout the year. Six credits.
- 4. Contracts. Assent and the necessity of its communications; offers and their expiration or revocation; consideration; contracts under seal; joint and several contracts; conditional contracts; duress; discharge of contracts by rescission; novation, accord and satisfaction; release. Three hours throughout the year Six credits.

Tu. Th. Sat. 1:30

- 5. BILLS AND NOTES. Formal requisites; acceptance; indorsement; transfer; overdue paper; extinguishment; obligations of parties; checks; Negotiable Instruments' Law. Three hours, first term. Three credits.
- 6. Agency. The creation and termination of the relation; nature and execution of the authority; rights and liabilities under the relation; particular classes of agents. Three hours, second term. Three credits.

- 7. Corporation Law. Private corporations; creation of corporations; implied and granted powers of corporations; powers and liabilities of directors, stockholders, etc. Municipal corporations; legislative control; rights and remedies of creditors; liabilities; power to contract on credit, borrow money, and issue negotiable instruments. Three hours, first term. Three credits.
- 8. Partnerships. Nature of a partnership, its purposes and members, creation of partnerships; nature of partners' interest; firm name and good-will; mutual rights and duties of partners; liability of partners; dissolution; debts; distribution of assets; limited partnership. Three hours, second term. Three credits.
- 9. a. SALES. Subject-matter of sale; executory and executed sales; bills of lading; fraud; warranty; Statute of Frauds.
- b. Mortgages. Form of mortgage—legal and equitable; the substance of the mortgage; elements of the mortgage; situation of the mortgagee and mortgagor.

Three hours, first term. Three credits.

12. IRRIGATION LAW OR THE LAW OF WATERS. This course treats of the right of appropriation, natural and artificial water courses, limitation of use, protection of rights, disposal of rights, percolating water, distribution of water, etc. Three hours, second term. Three credits.

Tu. Th. Sat. 11:50

ROADS

Professor Wm. Peterson

1. ROAD CONSTRUCTION. The course includes a study of road location, grade, drainage, resistance to traction, road materials, cost of construction and of machinery for preparing road material. Three hours, first term. Three credits.

Tu. Th. Sat. 11:50

2. ROAD MAINTENANCE. The effect of width of tires and size of wheels, keeping the road in proper form, repairing worn

surfaces, maintaining proper drainage, employment of labor, cost of maintenance, comparison of different road machines. Prerequisite, Roads 1. Three hours, second term. Three credits.

Tu. Th. Sat. 11:50

- 3. Bridge Building. A course dealing with methods of bridge construction, a study of materials used, and the amount of stress on arches of various kinds. The relative cost, strength, and durability of different bridges are discussed. Special attention is given to small bridges and culverts. Three hours, one term Three credits.
- 4. Road Building. A detailed study is made of the various materials used in the construction and maintenance of roads. Special attention is given to the materials which are available to Utah farmers. Prerequisite, Geology 2 or 4. Two hours, second term Two credits.

Lec. Wed. Fri. 8:30; lab. Tu. 2:20 to 4:50

See Agricultural Engineering, page 65, and Geology, page 100, for related work.

SOCIOLOGY

PROFESSOR THOMAS
PROFESSOR HENDRICKS

1. Elements of Sociology. A general course in the foundations and principles of sociology, including a careful study of the social organs, social structure, and social activities. Three hours throughout the year. Six credits.

Tu. Th. Sat. 12:40

2. Present Day Social Problems, with Special Reference to Rural Conditions. This course aims to apply the general principles of sociological science to the problems of modern agricultural and rural communities. Three hours, second term. Three credits.

Tu. Th. Sat. 11:50

See Economics, page 91, for related work.

STENOGRAPHY AND TYPEWRITING.

Mr. Howell

STENOGRAPHY

a. Stenography. A beginning course in stenography, designed to fit the student for actual work in the office, or to prepare him for more advanced reporting work. Graham's *Phonography* is used. Five hours throughout the year. Ten credits.

Daily, 9:20

b. Stenography. A continuation of Course a, involving a thorough review of the texts, a study of advanced correspondence, reporting legal matter, speeches, etc. Much transcribing on the typewriter is required. Five hours throughout the year. Ten credits.

Daily, 10:10

1. Stenography. A course designed to prepare the student for office work or to teach stenography. Five hours throughout the year. Ten credits.

Daily, 12:40

TYPEWRITING

a. Typewriting. A beginning course in typewriting. After the simpler exercises, the student learns correct fingering and the proper manipulation of the machine. Special attention is given to the care and mechanism of the typewriter. Five hours throughout the year. Two credits.

Daily, any hour

b. Typewriting. A special course for those taking stenography, including a study of correct forms of correspondence, legal forms, etc. As soon as moderate speed is acquired, the work includes the transcription of shorthand notes. Five hours throughout the year. Two credits.

Daily, any hour

1. Typewriting. A course supplementing Stenography 1 Five hours throughout the year. Two credits.

Daily, any hour

For accounting and business practice, see page 62.

VETERINARY SCIENCE

Professor Frederick

1. Veterinary Elements. This course considers briefly elementary anatomy and physiology and the common ailments of domestic animals; the most prevalent contagious diseases, their causes, symptoms, course, diagnosis and treatment; measures for their prevention and cure. The course is taught by lectures and text books, and illustrated by observation and practice in the free clinics held each week. The aim is to teach the student how to care for and treat the animals on the farm. Two hours, each term, and a three-hour clinic. Three credits.

Lec. Wed. Fri. 9:20; clinic, Sec. 1. Wed. 11:50 to 2:20; Sec. 2. Wed. 2:20 to 4:50

- 2. Comparative Anatomy. This course is prepared for students in agriculture, but especially in animal husbandry. It consists of lectures, illustrated by skeletons and prepared specimens and models. Each student is required to perform practical work in dissection. Two lectures and one laboratory period, throughout the year. Six credits.
- 3. Obstetrics. This course includes a review of obstetrical anatomy, reproduction, hygiene of pregnant animals, obstetric operations, accidents of parturition, and diseases of the young animals. The college herd and the surrounding stock-breeding community give opportunity for practical work. Three hours, one term. Three credits.
- 4. Physiology. This course consists of lectures and demonstrations, the vital functions of the different species of domestic animals and those of the human body being compared. A study of the physical and chemical laws as related to physiology, and of the general properties of animal cells,—their origin, development and growth, occupies the first term. Special physiology of the various organs and tissues of the animal body occupies the second term. Three lectures a week. Six credits.

- 5. CLINICS. Free clinics are held at the hospital, and all students taking any of the courses in veterinary science are required to attend and assist in the free examination and treatment of the numerous cases brought in, representing all diseases common to this section of the country and furnishing the clinic with abundant material for observation and actual application of the work of the class room. Hours and credits to be arranged.
- 6. Horse Shoeing. This course is devoted to the study of the anatomy and physiology of the horse's foot; the relation between the form of the foot and direction of the limb; variations in the flight of the foot, style of going, shoeing of normal and irregular feet; winter shoeing; correction of defects in gait, and methods of shoeing hoofs, defective in form or diseased. Time and credits to be arranged.

ZOOLOGY

Professor Titus Mr. Parry Mr. Hagan

a. General Zoology. An elementary course in which the student obtains a general knowledge of the relation of various groups of animals to one another. In the laboratory especial emphasis is laid on gross structure and the relation of the organs in the different groups. Two recitations and one laboratory period throughout the year. Six credits.

Sec. 1. Lec. Wed. Fri. 8:30; lab. Tu. 11:50 to 2:20 Sec. 2. Lec. Wed. Fri. 10:10; lab. Wed. 2:20 to 4:50 Sec. 3. Lec. Wed. Fri. 11:50; lab. Th. 11:50 to 2:20

3. Principles of Breeding. Lectures and required readings on the biological principles underlying life and the inheritance of characters. Three lectures, first term. Three credits.

Sec. 1. Tu. Th. Sat. 8:30 Sec. 2. Tu. Th. Sat. 10:10

4. Eugenics. Lectures and required readings on the principles of heredity as applied to the human race. Special attention

is given to the heredity of physical, mental, and moral characters, and their effect on the race. Prerequisite, Zoology 3. Three lectures, second term. Three credits.

Sec. 1. Tu. Th. Sat. 8:30 Sec. 2. Tu. Th. Sat. 10:10

5. HISTORY. Lectures and laboratory work on the development of the elementary tissues and their microscopic structure. Methods of preparing, staining, and mounting tissues. One lecture, two laboratory periods, throughout the year. Six credits.

Lec. Th. 9:20; lab. Tu. Th. 2:20 to 4:50 Alternates with Zoology 6.

6. Embryology. General principles of development beginning with the cell and following through the formation of the various membranes. In the second term is taken up the development of the central nervous system and the related sense organs. One recitation and two laboratory periods throughout the year. Six credits.

Not given in 1914--1915. Alternates with Zoology 5.

7. Advanced Zoology. This course deals with the classification, structure, and comparative anatomy of the common intermountain forms, especially those of the vertebrate group. Two lectures and one laboratory period. Three or six credits.

Lec. Tu. Sat. 9:20; lab. Fri. 2:20 to 4:50 Alternates with Zoology 8 and 9.

8. Economic Zoology. Lectures on the food habits of our common birds and injurious mammals; their relation to agricultural interests, and methods of control. Two lectures and one laboratory period. Three hours, first term. Three credits.

Lec. Wed. Fri. 9:20; lab. Tu. 2:20 to 4:50 Alternates with Zoology 7.

9. Animal Parasites. Lectures and laboratory work on the principal external and internal parasites of man and the various animals. Two recitations and one laboratory period, one term. Three credits.

Alternates with Zoology 7. Not given in 1914--1915. See Entomology, page 95, for related work.

							HEDUL			
HOUR	8:30	9:20	10:10	11:00	11:50	12:40	1:30	2:20	3:10	4:00
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DAIRYING				1				1		
ENTOMOLOGY				1		s		27 -	-	
HORTICULTURE	1 ^f , 10 S		9	1				21-		
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AGRI: ENGIN.				1						
AGRI: SURV.			 	1				4 ⁵ T Th		
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ENGLISH		c1,61,12	b, c ² ,19	_	62	c ³ ,13,22	a, 10,24			
GEOLOGY	21	22	3	1						
HISTORY	3		85	1		4	5			
LIBRARY				1 -1						
MATHEMATICS	7	a,5	P ₁	DRILL		6,3,115	4 ^S ,6 ^f			
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FIGURES AS EXPONENTS = SECTION | SMALL 'S' AS EXPONENT = SECOND TERM ONLY | CAPITAL LETTERS = DAYS OF WEEK | LARGE FIGURES = COLLEGE COURSES | SMALL LETTERS = HIGH SCHOOL COURSES

ALL SUBJECTS SHALL BE EXAMINED IN THE SCHEDULE GROUP OF WHICH THEY FORM A PART

	WE	DNES	DAY	AND	FRII	YAC	SCHED	ULE	. 19	14-15
HOUR	3:50	9:20	10:10	11:00	11:50	12:40	1:30	2:20	3:10	4:00
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FINANCE & BANK'G				Ŀ						
POL: SCIENCE				<u> </u>						
SOCIOLOGY				٩						
STENOGRAPHY		0	ь	STUDENT BODY		1				
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GEN: SCIENCE										
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HOME CONST: & SANT.	1 ^f , 3 ^S	2 ⁵ ,6	25							
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FIGURES AS EXPONENT = SECTION

TAS EXPONENT = FIRST TERM ONLY

LARGE FIGURES = COLLEGE COURSES

SMALL'S" AS EXPONENT = SECOND TERM ONLY
CAPITAL LETTERS = DAYS OF WEEK
SMALL LETTERS = HIGH SCHOOL COURSES

ALL SUBJECTS SHALL BE EXAMINED IN THE SCHEDULE GROUP

OF WHICH THEY FORM A PART

ALUMNI ASSOCIATION

In April, 1899, President J. M. Tanner suggested to Miss Anna Beers, '98 and Charles A. Jenson, '97 the desirability of organizing all the degree graduates of the College into an Alumni association. This was the initial step in the direction of the present firmly established organization. Miss Beers and Mr. Jensen prepared, and sent to each of the 34 graduates, a circular letter urging attendance at Commencement, 1899, in order to form a society. They met with a very hearty response. Meetings were held June 13 and 14, 1899; a constitution and by-laws were discussed and adopted; and the following officers were elected: President, Lewis A. Merrill, '95; Secretary, Anna Beers, '98; treasurer, Arthur Stover, '99. The following alumni have served as presidents of the association:

1899-1900, L. A. Merrill, '95. 1900-01, J. T. Caine, Jr., '94. 1901-02, W. H. Homer, Jr., '00. 1902-03, Rose Homer, '00. 1903-04, William Peterson, '99. 1904-05, J. W. Jensen, '00.

1905-06, Robert Stewart, '02. 1906-07, C. W. Porter, '05. 1907-08, J. C. Hogenson, '99. 1908-11, Christian Larsen, '96. 1911-12, C. W. Porter, '05. 1912-13, W. D. Beers, '99. 1913-14, Wm. Peterson, '99.

The U. A. C. Alumni Association includes all graduates who hold degrees from any of the courses in the College. It now numbers 384 living members. William Bernard Dougall, '94, Mrs. Anna Sponberg McCarty, '97; Prof. Christian Larsen, '96; Mrs. Hermoine Hart Roberts, '97; John Simon Baker, '99, and Stanley Crawford, '00, have died. With three exceptions, all of the 384 graduates have received the degree of Bachelor of Science (B. S), the particular course being specified in the diploma. In the first two classes, the degree of Bachelor of Civil Engineering (B. C. E.) was given, and W. B. Dougall, '94, A. B. Larsen, '94, and W. F. Culmer, '95, were graduated with this degree.

MEMBERS OF THE ALUMNI ASSOCIATION OF THE UTAH AGRICULTURAL COLLEGE

Class of 1894

Robert W. Erwin506 La Salle Building, St. Louis, Mo.
Bernard DougallDeceased
A. B. Larsen
Martha Hoyt Myrick
John T. Caine, JrRichmond, Utah
Jos. E. ShepherdLogan, Utah

Class of 1895

Will Fred Culmer	.Culmer Paint &	Glass Co., Sa	lt Lake City, Utah
Lewis A. Merrill	906 Newhous	e Building, Sa	t Lake City, Utah

Class of 1896

Willard S. Langton
Christian Larsen
Walter W. McLaughlinLogan, Utah
Amos N. Merrill
Lorin A. Merrill
Josiah L. RheadState Engineer's Office, Salt Lake City, Utah
Jos. R. ThomsonRichmond, Utah

Class of 1897 -

John H. BankheadOlla Barker Clara Foster Bacon	Ogden, Utah
Alfred A. Hart	
Hermoine S. Hart	
Thomas H. Humpherys	Logan, Utah
Charles A. Jensen	
Victoria Lundberg Anderson	
Rachel Maughan Wadsworth	
Charles Pond	
Mamie Smith Larsen	
Anna Sponberg	
John Stewart	
Osborne J. P. Widtsoe	Salt Lake City, Utah

Frederick H. Atkinson419 East 7th South, Salt Lake City, Ut	ah
Anna Beers Petty2555 Gramercy Avenue, Ogden, Ut	
Mabel Bullen YoungRichmond, Ut	ah
Joel J. HarrisAdams Avenue, Ogden, Ut	
A. Ray Irvine	ah

John S. Baker	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Walter W. Simmonds	

Class of 1900

Stanley Crawford	
Burton P. FlemingIowa (City, Iowa
Rose Homer WidtsoeSalt Lake (City, Utah
Wm. H. Homer, JrPleasant Gr	ove, Utah
Jos. W. JensenOgo	den, Utah
Elizabeth Maughan NyePa	ris, Idaho
William NelsonBudd Hall, Berkeley,	California
George F. TaylorState Engineer's Office, Salt Lake (City, Utah

Class of 1901

Planche CooperLogan, Utah
Esther Evans Davis
Mary Almeda Perry
Charles B. SmithBoise, Idaho
Mattie E. Stover Experiment Station, Berkeley, California

Class of 1902

Amanda Holmgren	Santschi	Tientsin,	China
Edward P. Pulley		Logan,	Utah

John T. Caine IIILogan, Utah
Thomas C. Callister, JrFillmore, Utah
Chas. F. Brown933 East 11th South, Salt Lake City, Utah
Grace Fisher
Lydia Holmgren TannerBrigham, Utah
Ambrose P. Merrill
Josephine Maughan WellsAsherville, Kansas
Aquilla C. Nebeker
Frederick D. Pyle
May Maughan Snow1109 West Washington Ave., Madison, Wis.

Edmund CrawfordCastle Dale, UtahGeneva Egbert ChaseR. F. D. No. 1, Farmington, UtahJoseph E. GreavesLogan, UtahRay Homer FisherRigby, IdahoRoy Fisher HomerCedar City, UtahWilliam JardineManhattan, KansasChas. A. McCauslandLogan, UtahSamuel P. MorganPreston, IdahoElmer G. PetersonLogan, UtahDavid StephensU. S. D. A., Washington, D. C.Warren G. SwendsenBoise, IdahoF. L. WestLogan, UtahR. B. WestLogan, Utah
Class of 1905
Richard S. Ballantyne
John Henry Luttle
Class of 1906 Irvine AllredLogan, Utah
Mildred Forgeon Rich
Class of 1907
P. G. Peterson Provo, Utah Fred Mathews Springville, Utah Inez Powell Belnap 2173 Adams Ave., Ogden, Utah Frank Moench American Falls, Idaho J. L. Kearns Park City, Utah F. D. Farrell U. S. D. A., Washington, D. C. B. F. Riter, Jr. Washington Bldg., Los Angeles, California Aaron Olsen Logan, Utah

Geo. R. Hill
Hans E. Jensen Ephraim, Utah
Alva HansenOgden, Utah
Heber CarverBrigham, Utah
Ellis Hudman
Russell K. Homer
Eunice E. Jacobsen
William L. Walker
Eugene Santschi

Class of 1909

Hugh Robert Adams
Jessie Anderson Hougaard
Earl Bennion
Ernest Carroll
Phillip V. Cardon
William Parley DayOgden, Utah
Robert J. Evans Logan, Utah
Chas. E. Fleming
Leon FonnesbeckLogan, Utah
Nellie Hayball BennionR. F. D. No. 7, Murray, Utah
Ernest P. Hoff
John R. Horton6328 Constance St., New Orleans, Louisiana
Julius H. JacobsenMitchell, Nebraska
Ethel Lee
Lizzie McKay HillLogan, Utah
Daniel L. Pack
Ina StratfordPocatello, Idaho
Geo. M. TurpinAmes, Iowa
Cadmus WallaceSmithfield, Utah
E. H. Walters
A. E. Aldous

Rodney C. Allred	l l l
Ethel Bennion Asa BullenLogan, Utah Ray B. CurtisVictor, Idaho Veda Dixon HamronBingham, Utah	1) 1
Florence Dudley Cook	1

Orson G. LloydAmes, Iowa
Orville L. Lee
Amy Jane Leigh
A. M. McOmie
Inez MaughanLogan, Utah
Lavinia MaughanLogan, Utah
Amelia Manning BarkerOgden, Utah
Dean F. Peterson
Erastus Peterson
Susannah Perry OlsenEphraim, Utah
James D. Pence
Willard L. PetersonPrice, Utah
William Corlett RiterO. S. L. Offices, Salt Lake City, Utah
Vincent Alff SadlerSalt Lake City, Utah
James H. Stewart
Robert H. StewartPrice, Utah
Winnifred I. Smith2110 Central Ave., Indianapolis, Indiana
Nora Sonne
A. H. SaxerLogan, Utah
Aaron F. Rasmussen
Franklin A. Wyatt
William B. OldhamSugar City, Idaho

James Arthur Armstrong	Ogden, Utah Salt Lake City, Utah U. S. Consul, Montevedio, Uruguay Laramie, Wyoming Brigham, Utah Wellsville, Utah Afton, Wyoming Liberty, Idaho
L. L. Cook	Fish Haven, Idaho
L. Samuel Christensen	Burley, Idaho Franklin, Idaho
Ira A. Cole	Logan, Utah Pergaminna F. C. C. A., Argentina
Frederick Froerer	Brigham, Utah
	Richmond, Utah Fresno, California
Heber C. Hancock	U. S. D. A., Washington, D. C
Elda Havenor	Mt. Pleasant, Utah
Sara Huntsman	Logan, Utah Logan, Utah Ethelhurst Apts., Washington, D. C.
Clarence E. Jones	Kamas, Utah

Wm. LeRoy JonesFillmore, Utah
Lucille Jensen Cooley
Alma J. Knapp Beaver, Utah
Coral L. KerrLogan, Utah
Coral L. Kerr
Walter A. LindsayLewiston, Utah
Clyde W. LindsayOgden, Utah
George L. Morrison
Marie D. Marie D. That
Merrill O. MaughanPrice, Utah
August L. Nelson
Mathew A. Nelson
Annie Nibley BullenLogan, Utah
John K. Olsen Ephraim, Utah
John S Paddock Wiedom Montana
John S. Paddock
Jesse L. Feterson
Clara F. Parrish
Canute PetersonLogan, Utah
Henry T. PlantRichmond, Utah
W. L. Quayle
Earl RobinsonRichmond, Utah
Earl Robinson
E. T. Ralph
George LeRoy ReeseBenson, Utah
Juanita Rich
D. Earle RobinsonLogan. Utah
J. Wiley Sessions
Charles Snow, Jr
A E Constant
A. E. Stratford Ogden, Utah Georgiana Smurthwaite Salt Lake City, Utah
Georgiana SmurthwaiteSalt Lake City, Utah
James ToveyMalad, Idaho
T A 317'11' D . D11 O 1 77. 1
Ios. A. Willey Utah
Jos. A. Willey Forestry Bldg., Ogden, Utah Rohert L. Wrigley Cedar City. Utah
Robert L. Wrigley
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Robert L. Wrigley Cedar City, Utah L. M. Winsor Logan, Utah Edward H. Watson Salt Lake City, Utah John S. Welch Gooding, Idaho Diamond Wendleboe Park City, Utah Vern C. Wooley Grantsville, Utah George L. Zundel Ithaca, New York Class of 1912 Byron F. Alder Logan, Utah
Robert L. Wrigley Cedar City, Utah L. M. Winsor Logan, Utah Edward H. Watson Salt Lake City, Utah John S. Welch Gooding, Idaho Diamond Wendleboe Park City, Utah Vern C. Wooley Grantsville, Utah George L. Zundel Ithaca, New York Class of 1912 Byron F. Alder Logan, Utah John A. Alder Salt Lake City, Utah
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Robert L. Wrigley Cedar City, Utah L. M. Winsor Logan, Utah Edward H. Watson Salt Lake City, Utah John S. Welch Gooding, Idaho Diamond Wendleboe Park City, Utah Vern C. Wooley Grantsville, Utah George L. Zundel Ithaca, New York Class of 1912 Byron F. Alder Logan, Utah John A. Alder Salt Lake City, Utah M. J. Andrews, Jr. Grantsville, Utah Harry C. Beers Logan, Utah Isaac B. Ball 3505 South 7th East, Salt Lake City, Utah Harry Beagley Roosevelt, Utah
Robert L. Wrigley Cedar City, Utah L. M. Winsor Logan, Utah Edward H. Watson Salt Lake City, Utah John S. Welch Gooding, Idaho Diamond Wendleboe Park City, Utah Vern C. Wooley Grantsville, Utah George L. Zundel Ithaca, New York Class of 1912 Byron F. Alder Logan, Utah John A. Alder Salt Lake City, Utah M. J. Andrews, Jr. Grantsville, Utah Harry C. Beers Logan, Utah Isaac B. Ball S505 South 7th East, Salt Lake City, Utah Harry Beagley Roosevelt, Utah Hervin Bunderson Brigham, Utah
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Robert L. Wrigley Cedar City, Utah L. M. Winsor Logan, Utah Edward H. Watson Salt Lake City, Utah John S. Welch Gooding, Idaho Diamond Wendleboe Park City, Utah Vern C. Wooley Grantsville, Utah George L. Zundel Ithaca, New York Class of 1912 Byron F. Alder Logan, Utah John A. Alder Salt Lake City, Utah M. J. Andrews, Jr. Grantsville, Utah Harry C. Beers Logan, Utah Isaac B. Ball 3505 South 7th East, Salt Lake City, Utah Harry Beagley Roosevelt, Utah Hervin Bunderson Brigham, Utah Lofter Bjarnason Dogden, Utah George R. Braithwaite Elmo, Utah George R. Braithwaite
Robert L. Wrigley Cedar City, Utah L. M. Winsor Logan, Utah Edward H. Watson Salt Lake City, Utah John S. Welch Gooding, Idaho Diamond Wendleboe Park City, Utah Vern C. Wooley Grantsville, Utah George L. Zundel Ithaca, New York Class of 1912 Byron F. Alder Logan, Utah John A. Alder Salt Lake City, Utah M. J. Andrews, Jr. Grantsville, Utah Harry C. Beers Logan, Utah Isaac B. Ball 3505 South 7th East, Salt Lake City, Utah Harry Beagley Roosevelt, Utah Hervin Bunderson Brigham, Utah Lofter Bjarnason Dogden, Utah George R. Braithwaite Elmo, Utah George R. Braithwaite
Robert L. Wrigley Cedar City, Utah L. M. Winsor Logan, Utah Edward H. Watson Salt Lake City, Utah John S. Welch Gooding, Idaho Diamond Wendleboe Park City, Utah Vern C. Wooley Grantsville, Utah George L. Zundel Ithaca, New York Class of 1912 Byron F. Alder Logan, Utah John A. Alder Salt Lake City, Utah Harry C. Beers Logan, Utah Hsaac B. Ball 3505 South 7th East, Salt Lake City, Utah Harry Beagley Roosevelt, Utah Hervin Bunderson Brigham, Utah Lofter Bjarnason Logan, Utah Alice D. Bowen Ogden, Utah

Taylor M. CarmichaelLehi, Utah
Orson A. ChristensenBrigham, Utah
Truman J. ColeLogan, Utah
Anna Leona CowleySalt Lake City, Utah
Elizabeth Wooley JensenLogan, Utah
Alice A. DunfordLogan, Utah
Arthur D. Ellison
Martin R. EnsignIthaca, New York
Ethel T. ErdmanLevan, Utah
Vivian Erickson Porter641 Huntington Ave., Boston, Massachusetts
Magdalen Funk SessionsPocatello, Idaho
Willard Gardner Berkeley, California
Reuben L. Hill
Vivian Hatch BullenLogan, Utah
L. R. HumpherysLogan, Utah
M. Irene HendricksonLogan, Utah
Clara Hyde
Angus IzattLevan, Utah
Orson W. Israelson
I. W. Jones
J. W. Jones
Vere L. MartineauSalt Lake City, Utah
Charles Leo MerrillBuenos Ayres, Argentina
John A. MorrisonPreston, Idaho
Wilford N. Moses Smithfield, Utah
Eleda Nelson EricksonPreston, Idaho
Aaron NeweyLogan, Utah
James G. OsmondLogan, Utah
Ichn W Peters Righam Htah
John W. Peters
Howard B. SchweitzerLogan, Utah
Melvin S. Smart
Wm. LeRoy SmithRush Medical Institute, Chicago, Illinois
L. A. Stevens
L. A. Stevens
John P. Sorenson
William John Wilson
William John Wilson Eden, Utah
Heber J. Webb
William G. WoolleyMonroe, Utah

Katherine P. AdamsParis, Idaho
Mary L. BastowLogan, Utah
Edward L. Barrett
Heber Bennion, JrLehi, Utah
Theron W. Bennion
Vernon A. Bird
Ivy M. BurnhamLogan, Utah
Josephine BurtonAfton, Wyoming
Asahel W. Burke
Mark C. BrownSalt Lake City, Utah

Clawson Y. Cannon	T - TT. 1
Clawson 1. Cannon	Logan, Utan
Marie Carlson	Paris, Idaho
Ezra G. Carter	Berne, Switzerland
William L. Clarke D. R. Coombs	Ogden, Utah
D R Coombs	Salt Lake City IItah
Ethal Davannort	Paris Idaha
Ethel Davenport A. H. Dixon	Paris, Idano
A. H. Dixon	Aiton, Wyoming
George M. Fister Joseph D. Foster	Ogden, Utah
Joseph D. Foster	
B. A. Fowler	Topele IItah
George Gardner	Logan IItah
TAT-14- T C1	Logan, Otan
Walter J. Glenn	
M. R. Gonzales	Manassa, Colorado
Mark H. Greene	American Fork, Utah
Katherine Elizabeth Groebli	Logan Utah
Lon J. Haddock	Salt Lake City IItah
E. S. Hallock	Solt Lake City, Otali
Е. 5. Папоск	. Sait Lake City, Otan
Chas. F. Hansen	Laylor, Arizona
Henry L. Hansen	Moab, Utah
James E. Haslam Hyrum J. Hartvigsen	Ogden. Utah
Hyrum I Hartvigsen 123 West 61	st St New York City
Joseph Hickman	Logan IItah
To the transfer of the transfe	Di Logali, Utali
Edwin J. Hollingren	Richmond, Utan
Edwin J. Holmgren LeGrande Hunsaker	Honeyville, Utah
Veda I. Hunsaker	Brigham, Utah
Norman Jensen Olive E. Jensen	Union Óregon
Olive F Jensen	Brigham IItah
Marrella I Johnson	Togan Titah
Myrtle I. Johnson,	Logan, Utan
Elmer E. Jonnson Gordon I. Kirby	Logan, Utah
Gordon I. KirbyBa	ttle Mountain, Nevada
Robert I. Kewley	Lafavette, Indiana
W. W. Knudson	Ithaca New York
Ive F Harmon	Wellswille IItah
Toba T Touritan	T amon Tital
John I. Lauritzen. Mary Lucille Lee	Logan, Utan
Mary Lucille Lee	Bingham, Utah
Arnold Lowe	
John Luscher	Preston, Idaho
Amy Lyman	Logan IItah
Amy Lyman	Salt I also City IItah
Vera M. Madsen	Sait Lake City, Otali
vera M. Madsen	
Anna M. Mathisen	. American Fork, Utah
Bryant S. MartineauForest	ry Bldg., Ogden, Utah
Howard I. Maughan	Logan, Utah
Howard J. Maughan William J. McCoy Robert W. McMullin	Salt Lake City Utah
Pohort W. McMullin	Nanhi IItah
TODEL VV. IVICIVI UIIIII	Cale Talas Citas TI
Virgil L. Minear	Sait Lake City, Utah
Ernest Mohr	Cedar City, Utah
Adella Morrell	Logan, Utah
Florence A. Munro	Logan, Utah
Phebe Nebeker Peterson	Logan IItah
Etta Nalson	Logan, Utah
Etta Nelson Junius F. Ogden	Di-1-C-14 TIV-1
Junius F. Ogden	Richneld, Utah

Joseph W. Olsen Norman Vern Peterson John Henry Peterson Herbert J. Pack F. N. Poulson W. D. Prosser Sterling E. Price W. S. Rawlings Harry S. Reed Evelyn Reilley B. L. Richards Abel S. Rich Lester A. Richardson Charles W. Reese David Sharp, Jr. Pattie Barrett Sharp Jos. F. Skinner Leslie A. Smith Frank D. Spencer H. J. Stearns George Stewart Herman W. Stucki Samuel Van Tunks Lenore Ure Louis B. Wangsgaard	
Samuel Van Tunks	Panhandle, Oklahoma
Ione Wangsgaard	Manti, Utah
Vera Weiler	Richfield, Utah
Joseph P. Welch	
Chas. H. West	Logan, Utah
John E. v. hite	
J. T. Worlton	Salt Lake City, Utah

Twenty-First Annual Commencement

June, 1914

GRADUATES WITH DEGREES

Bachelor of Science in Agriculture

Agronomy

Anderson, Andrew PFillmore
Baker, WilliamLoa
Batt, William BLogan
Barker, Joseph DOgden
Bracken, Aaron FStockton
Brossard, Roland ElmerLogan
Bullen, BryantLogan
Christiansen, Archie LFountain Green
Christensen, Axell
Christiansen, Hans ANephi
Christensen, John SSalt Lake City
Clyde, GroverSpringville
Caine, Alfred BRichmond
Griffin, Amos RNewton
Hales, George RaySpanish Fork
Harris, Martin L
Kerr, GeraldLogan
Madsen, Roy MGunnison
Peart, John Kenneth
Powell, Hartlett
Price, Ezra RSalt Lake City
Stephens, Edwin W
Sorensen, Charles J
Thomas, Preston
Young, Ernest ThomasBrigham City
West, Charles H

Animal Husbandry

Alder, Ferdinand C	Manti
Allen, Ethan Lasalle	Kingston
Frew, Eugene	
Hess, George MarionFa	
Ivins, Stanley SSalt I	
Pond, William Leon	
Parry, Gronway RSalt 1	Lake City

Shelley, Percy N. Logan Snow, Joseph H. Kingston Warnick, Adolphus P. Pleasant Grove	
Horticulture	
Goodspeed, William ESalt Lake City	
Chemistry	
Anderson, Hans P. Hyrum Martineau, Charles F. Logan Sharp, John A. Vernon Stone, Merline J. Ogden Richards, Bert L. Fielding	
Entomology	
Hagan, Harold RSalt Lake City	
Botany	
Hobson, Ivan LOgden Lauritzen, John IMoroni	
Agricultural Engineering	
Andrus, Lynn	
Commerce	
Bowen, John E. Spanish Fork Bearnson, Julius B. Spanish Fork Clawson, Leo B. Providence Ellertson, Jesse N. Mona Janson, Gilbert L. Gunnison Johnson, George A. Pocatello, Idaho Nelson, David J. Logan Pence, John O. Logan Thain, Wilber E. Logan Laurenson, Edward J. Logan Parkinson, Ezra B. Logan	
Argyle, Horace RSpanish Fork	
Bacon, Reginald R Logan Christensen, Parley A Robin, Idaho Chambers, Josephine Salt Lake City	

Fraser, Earl W. Salt Lake City Gardner, Grandison Logan Hillman, Genevieve Logan Major, Jack Ogden Merrill, Preston R. Wellsville McGregor, Charles P. Cleveland, Idaho Justesen, Osmon Wellsville Reeder, Moses Hyde Park Richardson, Ivie Logan	
Thatcher, George WLogan	
Willard, Eda GertrudeStrong, Maine	
Home Economics	
Agren, Ellen Ogden Cook, Rhoda B. Logan Greenhalgh, Violet Logan Isaacson, May Brigham Nielson, Pearl C. Logan Parrish, Afton Farmington Peters, Laura E. Nephi Peterson, Nettie Logan Reese, Mary Naomi King Shaw, Mary A. Logan Warnick, Effie Pleasant Grove Woodside, Jean R. Logan	
Mechanic Arts	
Christensen, OswaldLogan Wangsgard, ErnestSalt Lake City	
Degree of Master of Science in Agriculture	
Hirst, Charles TLogan	

Honors, 1913-1914

SCHOLARSHIP. In order to encourage high scholarship the college council has instituted a College Roll containing the names of all students doing excellent work. This roll is divided into two groups: the first contains the names of those who have A or B in all their work; the second, the names of students who have A or B with one C.

For the year 1913-14 the following students were selected from the College Roll as deserving special distinction for high achievement in scholarship. They were, accordingly, publicly honored by receiving either a "Scholarship A" or "Honorable Mention" for scholarship:

Scholarship "A"

William Baker David W. Smith Delore Nichols Effie Warnick George P. Barber Nellie Barker

Honorable Mention

Lottie H. Kunz Barbara Pace Genevieve Hillman H. A. Christensen Irvine Nelson Harold Peterson

Debating. The following students represented the U. A. C. in intercollegiate debate:

Jack Major John E. Bowen John B. Walker Jesse Ellertson

Oratory. The Hendricks medal and that offered by The Sons of the American Revolution were won by:

John E. Bowen Julius B. Bearnson

STUDENT BODY OFFICERS:

George M. Hess, President Alfred B. Caine I. L. McAlister Adolphus P. Warnick Annette Goodwin
William E. Goodspeed
John B. Walker
Archie L. Christiansen
John F. Wooley
Bryant Bullen
Vaughn Haws
Gronway R. Parry
Arthur H. Caine

STUDENT LIFE staff:

John O. Pence, Editor Reginald Bacon Genevieve Hillman Langton Barber Harold Peterson Bryant Bullen Lucile Hayball

BATTALION ROSTER, 1913-1914:

Field and Staff Officers

Lynn Andrus, Major S. C. Perry, Captain and Adjutant I. L. McAlister, Second Lieutenant and Quartermaster S. L. Barber, Second Lieutenant

Non-Commissioned Staff Officers

Lynn H. Hale, Sergeant Major Frances Corav, Color Sergeant S. W. Riter, Quartermaster Sergeant L. Davidson, Trumpeter Sergeant

Band

Guy B. Alexander, Chief Musician Storm McDonald, Principal Musician J. C. Odell, Drum Major W. M. Doutre, Sergeant E. S. Smith, Sergeant C. P. Cannon, Sergeant H. Hurst, Sergeant W. G. Reese, Corporal Orson Madsen, Corporal V. Thorpe, Corporal N. W. Christensen, Corporal

Company A

Captain, H. R. Pond First Lieutenant, A. Peterson Second Lieutenant, Edlef Edlefson First Sergeant, G. M. Dunford Sergeant, C. E. Cotter Sergeant, S. Madsen Sergeant, L. T. Ralph Sergeant, G. Heldberg Corporal, J. C. Toombs Corporal, E. P. Monson Corporal, C. W. Nisson Corporal, H. R. Maughan Corporal, A. Lindquist

Company B

Captain, C. P. Preston
First Lieutenant, F. W. Lee
Second Lieutenant, D. J. Cragun
First Sergeant, L. Nuttal
Sergeant, L. Monson
Sergeant, V. Hendricks
Sergeant, L. Tanner
Corporal, S. K. Daniels
Corporal, A. Bjorkman
Corporal, Lloyd Tuttle
Corporal, C. F. Smith

Company C

Captain, J. E. Hatch
First Lieutenant, M. S. Johnson
Second Lieutenant, W. H. Hendricks
First Sergeant, L. J. Hailstone
Sergeant, A. Dallof
Sergeant, M. S. Budge
Sergeant, E. C. Lorentzen
Corporal, B. Alexander
Corporal, W. A. Stephensen
Corporal, J. C. Merrill
Corporal, L. E. Carroll
Corporal, W. L. Bearnson
Corporal, H. Reader

List of Students, 1913-1914

(Not including Farmers' Roundup and Housekeepers' Conference)

In the following list "a" stands for agriculture; "ae" for agricultural engineering; "ho" for home economics; "c" for commerce; "ma" for mechanic arts; "g" for general science; "m" for music; "ss" for summer school; "w" for winter course; "G" for gradutes; "S" for seniors; "I" for juniors; "So" for sophomores; "F" for freshman; "Sp" for special; "O" for optional; "4" for fourth year; "3" for third year; "2" for second year; "p" for practical course.

Adams, J. V., 3-a Logan
Adams, Jenette, ssLogan
Adams, Katherine, ssLayton
Allen, Geo. M., 3-g
Aebischer, Louise, ssLogan
Affleck, Orville, w-cLogan
Agren Ellen ho-S
Alexander, B. H., a-2. Heber City Alexander, Guy B, g-3. Logan Alder, Ferdinand C., a-S. Manti
Alexander, Guy B. g-3.
Alder, Ferdinand C. a-S. Manti
Alleman, Jos. G., c-J. Springville
Allen, Cyril J., g-2Wellsville
Allen, Ethan la Salle, a-SKingston
Allen, Jeanette, ho-sp
Allen, Mavil, g-sp
Allen, Robt. L., a-3
Allen, Wm. J., ss
Allred, Lee, ss
Anderson, Andrew P., a-SFillmore
Anderson, Andrew W., a-SoFairview
Anderson, Geo., p-cLewiston
Anderson, Hans P., a-S
Anderson, Mirl, ho-SoBrigham
Andrews, Michael, ssLogan
Argyle, Horace R., g-SSpanish Fork
Aldous, Tura M., g-SoOgden
Amussen, Geo. A., g-wLogan
Andrus, Lyman, ae-SMammoth
Bacon, Helen, ho-FLogan
Bacon, Reginald R., c-JLogan
Badger, Leon, ma-WOgden
Baer, Margaret, ho-SpProvidence
Bailey, Lew, g-WLogan
Baker, Hazel, ssRichfield
Baker, William, a-SSt. George
Ballantyne, Glenna, ho-FLogan

Ballif, Leonard H., a-3Logan
Bankhead, Bertha, ssLevitt, Canada
Bankhead, Bertha, ss. Levitt, Canada Barber, Ellen, ho-2. Logan Barber, George P., g-2. Logan Barber, Mary, ho-Sp. Logan
Barber George P. g-2.
Rarber Mary ho-Sa
Barber, Seth L., c-SoLogan
Barber, Seth L., c-50Logan
Barber, Solon R., g-2Logan
Barber, Walter F., a-So. Logan Barker, Joseph D., a-S. Ogden Barker, Nellie, ho-J. Ogden
Barker, Joseph D., a-SOgden
Barker, Nellie, ho-JOgden
Darnard, Neille, SS
Barney, Malinda, ss Logan
Barnes Herschel 2-2 Standrod
Barney, Malinda, ss Logan Barnes, Herschel, a-2. Standrod Barrett, Alonzo T., g-S. Logan
Barrett, Charles E., ss
Darrett, Charles E., SS
Barrett, Edward, ssLogan
Barron, George L., a-JLogan
Bartlett, Henry, ma-WMendon
Barton, Fletcher, ssBeaver
Barton, Ivan S., a-2Logan
Barton, Mary L., g-GLogan
Batt. William B. a-SLogan
Blackhurst, Margaret, g-FAmerican Fork
Blair, Millington, a-3Logan
Bracken, Aaron F., a-SStockton
Bradshaw Daniel a-3 Wellsville
Bradshaw, Daniel, a-3. Wellsville Beach, Charles F., c-2. Logan
Beagley, Beatrice, ssNephi
Beagley, Egbert, a-SoNephi
beagiey, Eguert, a-50vepin
Roomson Julius R o S
Bearnson, Iulius B., c-SSpanish Fork
Bearnson, Iulius B., c-S
Bearnson, Iulius B., c-S
Bearnson, William L., c-F
Bearnson, William L., c-F. Beatie, Nelson R., a-p Salt Lake Beck, Ray, ss Spring City Bennion, Lavon, ho-3 Bennion, Lora, ho-2 Bennion, Mary, ho-J Salt Lake Benson, Emory H., a-2 Newton
Bearnson, William L., c-F. Kenilworth Beatie, Nelson R., a-p Salt Lake Beck, Ray, ss Spring City Bennion, Lavon, ho-3 Logan Bennion, Lora, ho-2 Logan Bennion, Mary, ho-J. Salt Lake Benson, Emory H., a-2 Newton Benson, Gretta R., ho-J Helena, Montana
Bearnson, William L., c-F. Beatie, Nelson R., a-p Salt Lake Beck, Ray, ss. Spring City Bennion, Lavon, ho-3 Bennion, Lora, ho-2. Logan Bennion, Mary, ho-J. Salt Lake Benson, Emory H., a-2. Newton Benson, Gretta R., ho-J. Helena, Montana Renson Hazel
Bearnson, William L., c-F. Beatie, Nelson R., a-p Salt Lake Beck, Ray, ss. Spring City Bennion, Lavon, ho-3 Bennion, Lora, ho-2. Logan Bennion, Mary, ho-J. Salt Lake Benson, Emory H., a-2. Newton Benson, Gretta R., ho-J. Helena, Montana Renson Hazel
Bearnson, William L., c-F. Beatie, Nelson R., a-p Salt Lake Beck, Ray, ss. Spring City Bennion, Lavon, ho-3 Bennion, Lora, ho-2. Logan Bennion, Mary, ho-J. Salt Lake Benson, Emory H., a-2. Newton Benson, Gretta R., ho-J. Helena, Montana Renson Hazel
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Bearnson, William L., c-F. Beatie, Nelson R., a-p Salt Lake Beck, Ray, ss. Spring City Bennion, Lavon, ho-3 Bennion, Lora, ho-2. Logan Bennion, Mary, ho-J. Salt Lake Benson, Emory H., a-2. Newton Benson, Gretta R., ho-J. Helena, Montana Benson, Hazel, ss. Newton Benson, Hedvig, ho-J. Benson, John P., a-J. Newton Benson, Norma, ss. Newton
Bearnson, William L., c-F. Beatie, Nelson R., a-p Salt Lake Beck, Ray, ss. Spring City Bennion, Lavon, ho-3 Bennion, Lora, ho-2 Logan Bennion, Mary, ho-J. Salt Lake Benson, Emory H., a-2 Newton Benson, Gretta R., ho-J Benson, Hazel, ss. Newton Benson, Hedvig, ho-J Logan Benson, John P., a-J Newton Benson, Norma, ss. Newton Benson, Norma, ss. Newton Bentley, Isaura, c-2 Logan
Bearnson, William L., c-F. Beatie, Nelson R., a-p Salt Lake Beck, Ray, ss. Spring City Bennion, Lavon, ho-3 Bennion, Lora, ho-2 Logan Bennion, Mary, ho-J. Salt Lake Benson, Emory H., a-2 Newton Benson, Gretta R., ho-J Benson, Hazel, ss. Newton Benson, Hedvig, ho-J Logan Benson, John P., a-J Newton Benson, Norma, ss. Newton Benson, Norma, ss. Newton Bentley, Isaura, c-2 Logan
Bearnson, William L., c-F. Beatie, Nelson R., a-p Salt Lake Beck, Ray, ss. Spring City Bennion, Lavon, ho-3 Bennion, Lora, ho-2. Logan Bennion, Mary, ho-J. Benson, Emory H., a-2. Salt Lake Benson, Gretta R., ho-J. Helena, Montana Benson, Hazel, ss. Newton Benson, Hedvig, ho-J. Logan Benson, John P., a-J. Newton Benson, Norma, ss. Springville
Bearnson, William L., c-F. Beatie, Nelson R., a-p Salt Lake Beck, Ray, ss. Spring City Bennion, Lavon, ho-3 Bennion, Lora, ho-2. Logan Bennion, Mary, ho-J. Benson, Emory H., a-2. Salt Lake Benson, Gretta R., ho-J. Helena, Montana Benson, Hazel, ss. Newton Benson, Hedvig, ho-J. Logan Benson, John P., a-J. Newton Benson, Norma, ss. Springville
Bearnson, William L., c-F. Beatie, Nelson R., a-p Salt Lake Beck, Ray, ss. Spring City Bennion, Lavon, ho-3. Bennion, Lora, ho-2. Logan Bennion, Mary, ho-J. Salt Lake Benson, Emory H., a-2. Newton Benson, Gretta R., ho-J. Benson, Hedvig, ho-J. Benson, Hedvig, ho-J. Logan Benson, John P., a-J. Newton Benson, Norma, ss. Newton Benson, Norma, ss. Newton Benson, Norma, ss. Newton Benson, Norma, ss. Springville Bingham, Martha, c-2. Logan Bingham, Sanford L., a-Sp. Logan Bingham, Sanford L., a-Sp. Logan Bingham, Marthar, Logan
Bearnson, William L., c-F. Beatie, Nelson R., a-p Salt Lake Beck, Ray, ss. Spring City Bennion, Lavon, ho-3. Bennion, Lora, ho-2. Logan Bennion, Mary, ho-J. Salt Lake Benson, Emory H., a-2. Newton Benson, Gretta R., ho-J. Benson, Hedvig, ho-J. Benson, Hedvig, ho-J. Logan Benson, John P., a-J. Newton Benson, Norma, ss. Newton Benson, Norma, ss. Newton Benson, Norma, ss. Newton Benson, Norma, ss. Springville Bingham, Martha, c-2. Logan Bingham, Sanford L., a-Sp. Logan Bingham, Sanford L., a-Sp. Logan Bingham, Marthar, Logan
Bearnson, William L., c-F. Beatie, Nelson R., a-p Salt Lake Beck, Ray, ss. Spring City Bennion, Lavon, ho-3. Bennion, Lora, ho-2. Logan Bennion, Mary, ho-J. Salt Lake Benson, Emory H., a-2. Newton Benson, Gretta R., ho-J. Benson, Hedvig, ho-J. Benson, Hedvig, ho-J. Logan Benson, John P., a-J. Newton Benson, Norma, ss. Newton Benson, Norma, ss. Newton Benson, Norma, ss. Newton Benson, Norma, ss. Springville Bingham, Martha, c-2. Logan Bingham, Sanford L., a-Sp. Logan Bingham, Sanford L., a-Sp. Logan Bingham, Marthar, Logan
Bearnson, William L., c-F. Beatie, Nelson R., a-p Salt Lake Beck, Ray, ss. Spring City Bennion, Lavon, ho-3 Bennion, Lora, ho-2. Logan Bennion, Mary, ho-J. Benson, Emory H., a-2. Newton Benson, Gretta R., ho-J. Benson, Hazel, ss. Newton Benson, Hedvig, ho-J. Benson, John P., a-J. Newton Benson, Norma, ss. Newton Benson, Norma, ss. Newton Benson, Norma, ss. Newton Benson, Norma, ss. Springville Bingham, Martha, c-2. Logan Berry, Eva, ho-Sp. Springville Bingham, Martha, c-2. Logan Bingham, Sanford L., a-Sp. Logan Bingham, Wilford H., a-3 Coalville
Bearnson, William L., c-F. Beatie, Nelson R., a-p Salt Lake Beck, Ray, ss. Spring City Bennion, Lavon, ho-3 Bennion, Lora, ho-2. Logan Bennion, Mary, ho-J. Benson, Emory H., a-2. Newton Benson, Gretta R., ho-J. Benson, Hazel, ss. Newton Benson, Hedvig, ho-J. Benson, John P., a-J. Newton Benson, Norma, ss. Newton Benson, Norma, ss. Newton Benson, Norma, ss. Newton Benson, Norma, ss. Springville Bingham, Martha, c-2. Logan Berry, Eva, ho-Sp. Springville Bingham, Martha, c-2. Logan Bingham, Sanford L., a-Sp. Logan Bingham, Wilford H., a-3 Coalville
Bearnson, William L., c-F. Beatie, Nelson R., a-p Salt Lake Beck, Ray, ss. Spring City Bennion, Lavon, ho-3. Bennion, Lora, ho-2. Logan Bennion, Mary, ho-J. Salt Lake Benson, Emory H., a-2. Newton Benson, Gretta R., ho-J. Benson, Hedvig, ho-J. Benson, Hedvig, ho-J. Logan Benson, John P., a-J. Newton Benson, Norma, ss. Newton Benson, Norma, ss. Newton Benson, Norma, ss. Newton Benson, Norma, ss. Springville Bingham, Martha, c-2. Logan Bingham, Sanford L., a-Sp. Logan Bingham, Sanford L., a-Sp. Logan Bingham, Marthar, Logan

Boswell, Stephen R., a-SoNeph	
Boswell, Stephen R., a-SoNeph	1
Booth, John A., a-JNeph	i
Bowen, Allie, ssOgder	1
Bowen, Edith, ssLogan	,
Bowman, May, ssOgder	
D. D. J. I.	1
Bowman, Nell, ssOgder	1
Bown, Hyrum B., a-SoManti	i
Bowen, John E., c-SSpanish Fork	5
Bowers, Ernest, a-SoNeph	i
Bjorkman, Arthur E., g-3Logar	1
D 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
Brossard, Howard S., ae-SoLogar	1
Brossard, Roland E., a-SLogan	1
Brown, Carrie, ho-2Logan	,
Brown, Eva, ssOgder	
Brown, Laurel, c-So	ì
Brown, Laurer, c-50	1
Brown, Merle E., a-W	r
Brown, Scott B., a-F. Logar Brown, William W., a-So. Mant	1
Brown, William W., a-So., Manti	i
Budge, Scott M., g-2Logar	ì
Dudge, Scott M., g-2	ì
Budge, Wallace H., g-3Logar	1
Bullen, Bryant, a-SRichmond	1
Burgon, Veva, ss. Garland Burnham, Caroline, ho-Sp. Logar	1
Burnham, Caroline, ho-Sp.	,
Burnham, Edna, ss	ì
Durant Const. C.	ì
Burnett, Grover, a-So Logar Burnham, Pauline, ho-Sp Salt Lake	1
Burnham, Pauline, ho-SpSalt Lake	2
Burris, Mae Louise, c-pLogar	1
Burt, Kenneth, a-SoSpringville	
Burton, Richard W., c-FSalt Lake	
Duiton, Richard W., C-1	•
Butt, Newbern I., a-J. Leh Buttars, Tommy, a-W. Clarkston	1
Buttars, Tommy, a-WClarkston	1
Blucher, Mary I., ss	9
Cahoon, Geo. E., a-J	7
Cahoon, Spencer, c-SoLogan	
Canoni, Spencer, C-So.	ì
Caine, Alfred B., a-S. Richmond Caine, Arthur, a-So. Richmond	i
Caine, Arthur, a-So	l.
Calvert, Alta, ho-SoOgden	1
Call, Cyril J., a-wWillard	1
Callaghan, Bessie, ssOgden	
Candland, Guy L., a-So	
Candiand, Guy L., a-50	
Candfield, Chas. I., c-2Logan	ł.
Cannon, Clyde P., ae-SoLogan	1
Cannon, Clyde P., ae-So	1
Cannon, Marguerite, 8-1Logan	1
Cannon, Marguerite, 8-JLogan Card Orson Rega. mo-FLogan	1
Cannon, Marguerite, 8-J	1 1 1
Cannon, Marguerite, 8-J	1 1 1
Cannon, Marguerite, 8-J	1 1 1
Cannon, Marguerite, 8-J	1 1 1
Cannon, Marguerite, 8-J	1 1 1
Cannon, Marguerite, 8-J	1 1 1
Cannon, Marguerite, 8-J	1 1 1
Cannon, Marguerite, 8-J.LoganCard, Orson Rega, mo-F.LoganCardon, Grace, ss.LoganCardon, Harriet C., ho-3.LoganCarlson, Frederick J., mo-2.Oxford, Ida.Carlson, Olga, ss.LoganCarlson, Raymond W., c-J.LoganCarlson, Torval P., ma-W.Preston, IdahoCarlson, V. S. g-2.Logan	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Cannon, Marguerite, 8-J. Logan Card, Orson Rega, mo-F. Logan Cardon, Grace, ss. Logan Cardon, Harriet C., ho-3. Logan Carlson, Frederick J., mo-2. Oxford, Ida. Carlson, Olga, ss. Logan Carlson, Raymond W., c-J. Logan Carlson, Torval P., ma-W. Preston, Idaho Carlson, V. S., g-2. Logan Carlson, Wm R a-3. Ogden	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Cannon, Marguerite, 8-J.LoganCard, Orson Rega, mo-F.LoganCardon, Grace, ss.LoganCardon, Harriet C., ho-3.LoganCarlson, Frederick J., mo-2.Oxford, Ida.Carlson, Olga, ss.LoganCarlson, Raymond W., c-J.LoganCarlson, Torval P., ma-W.Preston, IdahoCarlson, V. S. g-2.Logan	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Carrington, A. C., spLogan
Carrington, A. C., sp. Logan Carrington, Mrs. Fay, g-Sp. Logan
Compati D. C. 2
Carroll, D. S., a-2Vernal
Carroll, Leroy, a-FVernal
Carroll Oryal a-2
Carroll, Orval, a-2Logan Carson, La Rue, ho-SoRichmond
Carson, La Rue, no-So
Catmull, N. O., c-2Logan
Chambers, Josephine, ssLogan
Chambers Vore on Carith full
Chambers, Vera, ssSmithfield
Clark, Edward J., a-spLogan
Clark, Ernest, ssLogan
Clark, Lucius, ssLogan
Clark, Euclus, 55
Clark, Rebecca, ssLogan
Clark Lester L. ma-2
Clark Wm I g-G
Clark, Wm. L., g-G. Provo Clawson, August J., ss. Hyrum
Clawson, August J., ss
Clawson, Elmer C., g-2. Providence Clawson, Leo B., c-S. Providence
Clawson Leo B c-S Providence
Clayson, Lee D., C-5
Clayton, Irvin, a-SoSalt Lake
Cragun, Dresden J., a-FSmithfield
Cragun, James A., mo-spSmithfield
Cragan, Janes II, interpretable Continued in
Cragun, Lavon, ssSmithfield
Clyde, Dean, a-wHeber
Clyde, Lynn, a-w
Clyde, Grover, a-SSpringville
Clyde, Glover, a-5
Creer, Rulon, a-SoSpanish Fork
Childs, Alice, ssLima, Montana
Childs, Alice, ssLima, Montana
Chipman, Auburn C. ssAmerican Fork
Chipman, Auburn C., ss
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen Mary ss. Salina
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen Mary ss. Salina
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Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W. Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Logan Christensen, Parley N., g-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Logan Christensen, Parley N., g-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green Christiansen, Edna M., ho-Sp. Mayfield
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Logan Christensen, Parley N., g-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green Christiansen, Edna M., ho-Sp. Mayfield Christiansen, ElRoy L., a-2. Mayfield
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Salina Christensen, Oswald, ma-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green Christiansen, Edna M., ho-Sp. Mayfield Christiansen, ElRoy L., a-2. Mayfield Christiansen, Hans A. a-S. Nephi
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Salina Christensen, Oswald, ma-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green Christiansen, Edna M., ho-Sp. Mayfield Christiansen, ElRoy L., a-2. Mayfield Christiansen, Hans A. a-S. Nephi
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Logan Christensen, Oswald, ma-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green Christiansen, Edna M., ho-Sp. Mayfield Christiansen, ElRoy L., a-2. Mayfield Christiansen, Hans A., a-S. Nephi Christiansen, Nels W., a-J. Mayfield
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W. Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Logan Christensen, Parley N., g-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green Christiansen, Edna M., ho-Sp. Mayfield Christiansen, ElRoy L., a-2 Mayfield Christiansen, Hans A., a-S. Nephi Christiansen, Nels W., a-J. Mayfield Christiansen, Nels W., a-J. Mayfield Christiansen, John S., a-S. Salt Lake
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Logan Christensen, Parley N., g-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green Christiansen, Edna M., ho-Sp. Mayfield Christiansen, ElRoy L., a-2 Mayfield Christiansen, Hans A., a-S. Nephi Christiansen, Hens W., a-J. Mayfield Christiansen, John S., a-S. Salt Lake Criddle, Estella, ho-Sp. Mayfield
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Logan Christensen, Parley N., g-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green Christiansen, Edna M., ho-Sp. Mayfield Christiansen, ElRoy L., a-2 Mayfield Christiansen, Hans A., a-S. Nephi Christiansen, Hens W., a-J. Mayfield Christiansen, John S., a-S. Salt Lake Criddle, Estella, ho-Sp. Mayfield
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Salina Christensen, Parley N., g-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green Christiansen, Edna M., ho-Sp. Mayfield Christiansen, ElRoy L., a-2. Mayfield Christiansen, Hans A., a-S. Nephi Christiansen, Nels W., a-J. Mayfield Christiansen, Nels W., a-J. Mayfield Christiansen, John S., a-S. Salt Lake Criddle, Estella, ho-Sp. Mayfield Criddle, Lawrence I., a-2. Syracuse
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Logan Christensen, Oswald, ma-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green Christiansen, Edna M., ho-Sp. Mayfield Christiansen, ElRoy L., a-2. Mayfield Christiansen, Hans A., a-S. Nephi Christiansen, Nels W., a-J Mayfield Christiansen, John S., a-S Salt Lake Criddle, Estella, ho-Sp. Mayfield Criddle, Lawrence I., a-2. Syracuse Cole. Ira A. a-G. Logan
Chipman, Auburn C., ss.American ForkChipman, Florence, ho-So.American ForkChristensen, Aaron D., ae-So.FairviewChristensen, Axel, a-So.MonroeChristensen, Gladys, ho-So.LoganChristensen, James V., ma-WSmithfieldChristensen, Mary, ss.SalinaChristensen, Oswald, ma-S.LoganChristensen, Parley N., g-SRobin, IdahoChristiansen, Archie L., a-S.Fountain GreenChristiansen, Edna M., ho-Sp.MayfieldChristiansen, ElRoy L., a-2MayfieldChristiansen, Hans A., a-S.NephiChristiansen, Nels W., a-J.MayfieldChristiansen, John S., a-SSalt LakeCriddle, Estella, ho-Sp.MayfieldCriddle, Estella, ho-Sp.MayfieldCriddle, Lawrence I., a-2SyracuseCole, Ira A., a-G.LoganCole, Truman J., c-G.Logan
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Logan Christensen, Parley N., g-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green Christiansen, Edna M., ho-Sp. Mayfield Christiansen, ElRoy L., a-2 Mayfield Christiansen, Hans A., a-S. Nephi Christiansen, Nels W., a-J. Mayfield Christiansen, Nels W., a-J. Mayfield Christiansen, John S., a-S. Salt Lake Criddle, Estella, ho-Sp. Mayfield Criddle, Lawrence I., a-2. Syracuse Cole, Ira A., a-G. Logan Cole, Truman J., c-G. Logan Collett. Elsie. ho-F. Roosevelt
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Logan Christensen, Parley N., g-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green Christiansen, Edna M., ho-Sp. Mayfield Christiansen, ElRoy L., a-2 Mayfield Christiansen, Hans A., a-S. Nephi Christiansen, Nels W., a-J. Mayfield Christiansen, Nels W., a-J. Mayfield Christiansen, John S., a-S. Salt Lake Criddle, Estella, ho-Sp. Mayfield Criddle, Lawrence I., a-2. Syracuse Cole, Ira A., a-G. Logan Cole, Truman J., c-G. Logan Collett. Elsie. ho-F. Roosevelt
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Logan Christensen, Parley N., g-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green Christiansen, Edna M., ho-Sp. Mayfield Christiansen, ElRoy L., a-2 Mayfield Christiansen, Hans A., a-S. Nephi Christiansen, Nels W., a-J. Mayfield Christiansen, John S., a-S. Salt Lake Criddle, Estella, ho-Sp. Mayfield Criddle, Lawrence I., a-2 Syracuse Cole, Ira A., a-G. Logan Collett, Elsie, ho-F. Roosevelt Collett, Reuben S. a-w Roosevelt
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Solina Christensen, Parley N., g-S. Robin, Idaho Christensen, Parley N., g-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green Christiansen, Edna M., ho-Sp. Mayfield Christiansen, ElRoy L., a-2 Mayfield Christiansen, Hans A., a-S. Nephi Christiansen, Nels W., a-J. Mayfield Christiansen, Nels W., a-J. Mayfield Christiansen, John S., a-S. Salt Lake Criddle, Estella, ho-Sp. Mayfield Criddle, Estella, ho-Sp. Syracuse Cole, Ira A., a-G. Logan Collett, Reuben S., a-w. Roosevelt Connell Jos. W. ma-So. Parowan
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Salina Christensen, Oswald, ma-S. Robin, Idaho Christiansen, Parley N., g-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green Christiansen, Edna M., ho-Sp. Mayfield Christiansen, ElRoy L., a-2. Mayfield Christiansen, Hans A., a-S. Nephi Christiansen, Nels W., a-J. Mayfield Christiansen, John S., a-S. Salt Lake Criddle, Estella, ho-Sp. Mayfield Criddle, Estella, ho-Sp. Mayfield Criddle, Lawrence I., a-2. Syracuse Cole, Ira A., a-G. Logan Cole, Truman J., c-G. Logan Collett, Elsie, ho-F. Roosevelt Collett, Reuben S., a-w. Roosevelt Collett, Reuben S., a-w. Roosevelt Connell, Jos. W., ma-So. Parowan Cook, Alfonzo L., a-S. Garden City
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Logan Christensen, Parley N., g-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green Christiansen, Edna M., ho-Sp. Mayfield Christiansen, ElRoy L., a-2 Mayfield Christiansen, Hans A., a-S. Nephi Christiansen, Nels W., a-J. Mayfield Christiansen, Nels W., a-J. Mayfield Christiansen, Nels W., a-J. Mayfield Christiansen, John S., a-S. Salt Lake Criddle, Estella, ho-Sp. Mayfield Criddle, Lawrence I., a-2. Syracuse Cole, Ira A., a-G. Logan Collett, Elsie, ho-F. Roosevelt Collett, Reuben S., a-w. Roosevelt Connell, Jos. W., ma-So. Garden City Cook, Caddie ho-Sp. Salt Lake
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Logan Christensen, Parley N., g-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green Christiansen, Edna M., ho-Sp. Mayfield Christiansen, ElRoy L., a-2 Mayfield Christiansen, Hans A., a-S. Nephi Christiansen, Nels W., a-J. Mayfield Christiansen, Nels W., a-J. Mayfield Christiansen, Nels W., a-J. Mayfield Christiansen, John S., a-S. Salt Lake Criddle, Estella, ho-Sp. Mayfield Criddle, Lawrence I., a-2. Syracuse Cole, Ira A., a-G. Logan Collett, Elsie, ho-F. Roosevelt Collett, Reuben S., a-w. Roosevelt Connell, Jos. W., ma-So. Garden City Cook, Caddie ho-Sp. Salt Lake
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Logan Christensen, Parley N., g-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green Christiansen, Edna M., ho-Sp. Mayfield Christiansen, ElRoy L., a-2 Mayfield Christiansen, Hans A., a-S. Nephi Christiansen, Nels W., a-J. Mayfield Christiansen, Nels W., a-J. Mayfield Christiansen, Nels W., a-J. Mayfield Christiansen, John S., a-S. Salt Lake Criddle, Estella, ho-Sp. Mayfield Criddle, Lawrence I., a-2. Syracuse Cole, Ira A., a-G. Logan Collett, Elsie, ho-F. Roosevelt Collett, Reuben S., a-w. Roosevelt Connell, Jos. W., ma-So. Garden City Cook, Caddie ho-Sp. Salt Lake
Chipman, Auburn C., ss. American Fork Chipman, Florence, ho-So. American Fork Chipman, Florence, ho-So. American Fork Christensen, Aaron D., ae-So. Fairview Christensen, Axel, a-So. Monroe Christensen, Gladys, ho-So. Logan Christensen, James V., ma-W Smithfield Christensen, Mary, ss. Salina Christensen, Oswald, ma-S. Salina Christensen, Oswald, ma-S. Robin, Idaho Christiansen, Parley N., g-S. Robin, Idaho Christiansen, Archie L., a-S. Fountain Green Christiansen, Edna M., ho-Sp. Mayfield Christiansen, ElRoy L., a-2. Mayfield Christiansen, Hans A., a-S. Nephi Christiansen, Nels W., a-J. Mayfield Christiansen, John S., a-S. Salt Lake Criddle, Estella, ho-Sp. Mayfield Criddle, Estella, ho-Sp. Mayfield Criddle, Lawrence I., a-2. Syracuse Cole, Ira A., a-G. Logan Cole, Truman J., c-G. Logan Collett, Elsie, ho-F. Roosevelt Collett, Reuben S., a-w. Roosevelt Collett, Reuben S., a-w. Roosevelt Connell, Jos. W., ma-So. Parowan Cook, Alfonzo L., a-S. Garden City

Coombs, Lester, a-pFielding	
Cooper, Vida, ho-J Brigham Coray, Francis, a-Sho. Ogden	
Coray, Francis, a-Sho	
Costley, Dallas W., g-2 Orden	
Cotter, Clarence E., g-J. Lehi Covington, Bergetta, ho-Sp. Orderville	
Covington, Bergetta, ho-Sp	
Cowley, Laura, ss Logan	
Cox, Alvin C., g-J	
Cox lean c-Sp	
Cox Orlo ss Huntington	
Cox, Orlo, ss. Huntington Choules, Richard, ss. Preston, Idaho Crook, Ray, a-3. Garden City	
Crook Pay 23	
Crook, William C., a-FHeber	
Crook, William C., a-FHeber	
Crookston, Byron, a-3Logan	
Crookston, Laura E., a-3. Logan Crookston, Robert B., a-O. Logan	
Crookston, Robert B., a-OLogan	
Crookston, Spencer C., a-2. Logan Crowthers, William H., ss. Logan Counting Logan	
Crowthers, William H., ssLogan	
Curus, Irvin, a-50	
Cutler, Ethel, ho-SLogan	
Cutler, Ethel, ho-S	
Dahlstrom, Ethel. ho-FIdaho Falls	
Daines, Laverne H., c-SpLogan	
Dallof Albert c-I Smithfield	
Danielsen Esther ss. Lewiston	
Danielsen, Esther, ss. Lewiston Daniels, Shirley K. a-J. Vernal Daniels, Virginia, ss. Logan	
Daniels Virginia ss	
Darby, Archibald E., a-S	
Davidson, Amasa, ssLogan	
Davidson, Milasa, SS.	
Davidson, Edith, g-O. Logan Davidson, Leonard, a-J. Ogden	
Davidson, Leonard, a-j	
Davidson, Martha, g-OLogan	
Davidson, Mrytle, g-OLogan	
Davies, Fred S., ssProvo	
Daw, Royal H., ss. Salt Lake Dean, Frank E., c-So. Bingham	
Dean, Frank E., c-SoBingham	
Dean, Harold K., a-GLogan	
Dean, Lee, a-3Bingham	
Dewey, James L., ssDewey	
DeWitt, Rob. R., c-w. Logan Dinsmore, Florence E., ho-So. Ogden	
Dinsmore, Florence E., ho-SoOgden	
Doney William a-3 Logan	
D. D. Colt I also	
Dorton, Virgil, a-SoLehi	
Douglas Maud ss	
Doutre William c-So Logan	
Dorton, Nay E., ss. Lake Dorton, Virgil, a-So. Lehi Douglas, Maud, ss. Wellsville Doutre, William, c-So. Logan Dudley Park ss. Logan	
Diffley. Park. SS	
Dunbar, George L., a-D., Logan	
Dunbar, George L., a-p	
Dunbar, George L., a-p. Logan Dunford, Bailey, a-3. Logan Dunford Carlos L. 2-O. Salt Lake	
Dunbar, George L., a-p. Logan Dunford, Bailey, a-3. Logan Dunford, Carlos L., a-O. Salt Lake	
Dunbar, George L., a-p. Logan Dunford, Bailey, a-3. Logan Dunford Carlos L. 2-O. Salt Lake	

Dunn, Simeon A., a-2L	ogan
Durtschi, Fred, ma-2Mic	lway
Eames, Irvin, a-wO	gden
Earl, Frank M., c-wL	ดยลท
Edwards, Mclairon, g-wL	ogan
England Dalla to Co	ogan
England, Della, ho-Sp. L England, Virginia, ho-2. L	ogan
England, Virginia, ho-2	ogan
Erdman, Ethel, ssBrig	gham
Erdman, Ethel, ss. Brig Evans, Lawrence H., ae-S	Tephi
Evans, Sterling J., g-F	rovo
Eccles Emma ho-2	ogan
Ficiles Tessie o-F	Oman
Fooles Mariner S a So	ogan
Eccles, Mariner S., c-Sp. L. Eccles, Spencer, c-3. L.	ogan
Ecoles, Spencer, c-3	ogan
Edlefsen, Edlef, a-FL	ogan
Edlefsen, Jane F., c-p. Salt Egbert, Archie, a-Sp. L	Lake
Egbert, Archie, a-SpL	ogan
Egbert, Delmar, a-3L	ogan
Egbert, Elsie, ssPro	eston
Egbert, George L., a-SoLew	iston
Fider I Illian C on Calt	Talea
Elder, Lillian S., ss. Salt Ellertson, Jesse N., c-S.	Lake
Ellertson, Jesse N., c-S	yıona
Empey, Homer, a-wSalt	Lake
Empey, Ray, g-FL	ogan
Egginton, Elizabeth, ss	gden
Ellis, Rebecca, c-2L	ogan
Ension Dewey R a-w	oden
Fsplin Alma a-So Orde	rville
Esplin, Eleanor P., ho-2Orde	rville
Ellsworth, John O., a-JL	Ogan
Ellsworth, Orba, c-JL	Ogan
Fairbourn, Ford, a-JSalt	Talea
Fairbourit, Fold, a-J	Lake
Faux, Goldie, ho-So	oroni
Frandsen, Ernest, ssRedr	nona
Fraser, Earl W., ss	Lake
Fenton, Robet. A., a-2	Lrda
Fletcher, David S., c-So	gden
Freedman, D. A., a-SoSalt	Lake
Freeman, Wilford, a-SoBrig	rham
Frew, Arnold, a-SoHo	oper
Frew Fugene a-S	oner
Frew, Eugene, a-S	rzzi11a
Fight Dradford T a O Grand Island	Nah
Fisk, Bradford T., g-O	TYCU.
Fitzgerald, berton M., ma-F	gnam
Forbes, Clarence H., ma-J	gaen
Fordham, Albert, a-SpSanta	lara
Fordham, Albert, a-Sp. Santa (Foster, Winifred, ho-3. Whitney, I	daho
Fowler, David H., g-JHo	oper
Flowers, Malinda, ssStan	drod
Frodsham Mary ho-So Rockland I	daho
Froerer, Fred, ss	sville
Froerer, Fred, ss. Hunts Frogner, Sybil, ho-3. Hunts	vrum
Fulmer, Effie, ho-JL	Ogan
Tumer, Eme, no-J	08411

Gardner, Anthony S., a-FLogan
Cardian Cardian Logan
Gardner, Grandison, ssLogan
Gardner, Marie, g-F. Logan Gardner, Robert, g-So. Logan Garn, Breta, ho-So. Farmington
Gardner, Robert, g-SoLogan
Garn, Breta, ho-So Farmington
Grant, Mary, ss
Gray, Frances, ss
Gray, Frances, SSPerry, Idaho
Gray, Hazel, ho-So
Glesing, Ella, g-Sp. Logan Greaves, Card, c-F. Preston, Idaho
Greaves, Card, c-FPreston, Idaho
Greco, Élof M., ma-w
Green Ambrose I. ma-2
Green, Harry M., a-So
Green, Hally M., a-50Salt Lake
Greenhalgh, Truman T., g-3. Logan Greenhalgh, Violet, ho-S. Logan Greenwood, Josie, ss. American Fork
Greenhalgh, Violet, ho-SLogan
Greenwood, Josie, ss
Gregerson, Grant, a-F. St. George Griffin, Amos R., a-S. Newton
Griffin Amos R 2-S
Codha I awranca as I
Godbe, Lawrence, ae-J
Goodspeed, William E., a-SSalt Lake
Goodwin, Annette, g-JLogan
Goodwin, Charles H., a-SpLogan
Goodwin, Clarence, c-wLogan
Goodwin, William D., ma-p
Gottfredson, Ruth, ssSalina
Gottifedson, Kutil, Ss
Gowers, Ray, ma-SNephi
Groebli, Gladys, c-3Logan
Groebli, George, c-2Logan
Groebli, Jacob, ma-wLogan
Groebli, Katherine E., ssLogan
Hafen Harmon V 28-So Santa Clara
Hafen, Harmon V., ae-So
nagan, Mrs. Dianche, no-sp
Hagan, Harold, a-SSalt Lake
Hailstone, J. Leland, a-FLogan
Hailstone, Jane M., ac-2Logan
Hale, Ethel, ho-SoNorth Logan
Hale, Libbie, g-SoPreston, Idaho
Hale, Lyman H., c-3Preston, Idaho
Hales, George Ray, a-SSpanish Fork
Hales, George Ray, a-SSpanish Fork
Halgren, Denzil A., c-4Franklin, Idaho
Halgren, Edith A., ho-2Franklin, Idaho
Halling Bertha ss
Halling Rosetta ss
Halversen, William V., ae-SoSpanish Fork
Hamell, Marguerite, g-OOgden
Hamell, Marguerite, 9-0.
Hammond, Floyd A., ae-SoLogan
Hansen, Alma W., a-3Logan
Hansen, Edward B., g-F. Logan Hansen, Hortense Luella, ho-J. Salt Lake
Hansen, Hortense Luella, ho-J
Hansen Levinna SSFrovidence
TT Deploy on
Harris, Martin Lott, a-S
Harris, Martin Lott, a-5
Harris, Wanda, ho-SpFleiding

Housin Walter M . 2	C ' 317 '
Harris, Walter M., c-2	Superior, Wyoming
Harrison, Priel, ho-F	Logan
Hatch, Abe, c-p	
Hatch, Aura C., a-2	Logan
Ustah Tosaah E	T Logan
Hatch, Joseph E., c-g	Logan
Hatch, Lerleen C., a2	Logan
Hatch, Lorenzo B., c-2	Logan
Haws, Arlington, ae-2	Logan
Haws, Cooper C . C-	T
Haws, George G., a-Sp	Logan
Haws, Vaughan, a-F	Logan
Hayball, Edith, g-Sp	Logan
Hayball, Lucile, ho-Sp	Logan
Hostin William H as 2	Ondensille
Heatin, William H., ae-2	Orderville
Hegsted, Orville, a-2	Salt Lake
Hegsted, Orville, a-2 Heldberg, Gustav O., a-F. Heldberg, Richard E., a-3.	Logan
Heldherg Richard F 2-3	Logan
Hendricks, B. V., a-3	Taman
Transfer de la constant de la consta	Logan
Hendricks, David, ss	Lewiston
Hendricks, John Allen, ae-So	Logan
Hendricks, Lurea, ho-3	Richmond
Hendricks, Lorin A., a-3	Dishmond
IT 1:1 T 11 D	Kiciiiiona
Hendricks, Lenoll P., g-w	Logan
Hendricks, Nellie, g-Sp	Logan
Hendricks, Veda, c3 Hendricks, Walstein H., a-So	Logan
Hendricks, Welstein H a So	Dichmond
TT 1'1 A11 T7 2	Kiciiniona
Hendricksen, Allen V., a-2	Murray
Hess, George M., a-S	Farmington
Heyrend, Wilford F., c-So	Logan
Hyde Beth ho-F	Logan
Heyrend, Wilford F., c-So	Taman
Hyde, Lyle, no-2	Logan
Hickman, Joseph, g-G	Logan
Hickman, Othello, a-So	Provo
Hill, Edith, ss	Franklin Idaho
Hill, Ethel, g-O	Franklin, Idaha
IIIII, Etilei, g-O	Franklin, Idano
Hillam, LeRoy W., a-So	Salt Lake
Hillman, Genevieve, g-S	Sunnydale, Idaho
Hincks, Geneva, ho-Sp	Logan
Hindley, Eliza, ss	American Forls
TT: 11 E 1:.1	A
Hindley, Edith, ss	American_ Fork
Hirst, Charles T., g-S	Logan
Hobson, George C., ss	Ogden
Hindley, Edith, ss Hirst, Charles T., g-S Hobson, George C., ss Hobson, Ivan L, a-S	Orden
IT 1 Fundamin T	Descridence
Hodapp, Frederick, a-J	Providence
Hodges, Elizabeth, ss	Garden City
Hodges, Mrs. Maud, ho-Sp	Logan
Hodson, Edith, ss	Warren
IT -1 - C-4	Onden
Hoehn, Catherine, ss	Ogden
Hoffman, Albert L., a-w	Kandolph
Hoffman, Raymond L., a-w.,	
Holmgren, Andrea, ss	Bear River City
Holmgren, Edwin, ss	Bear Piver City
Homigren, Edwin, SS	Call Tal
Horne, J. Feramorz, a-F	Sait Lake
Horsley, Stewart, a-J	Brigham

Housley, Orva, c-Sp	Wellsville
Hovey, Izene, c-J Hovey, Sidney G., c-So	Millville
Hovey, Sidney G., c-So	Millville
Howells, Byron, c-F	Logan
Hubbard, Eliza, ss	Willard
Hubbard, Milton E., a-w	Willard
Hudman Mahel ho-Sp	Orden
Hudman, Mabel, ho-Sp Huffaker, Rawsel V., a-J.	Topolo
Hulet, Hope, ho-Sp	Determen
True 1 A - : - 2	reterson
Humpherys, Asia, c-3.	Logan
Humpherys, Caddie, c-J	Logan
Humpherys, Emiline, ss	Logan
Humpherys, LeGrande R., g-P	Logan
Humpherys, Rhoda, g-Sp	Salina
Hunsaker Vernetta, ss	. Honevville
Hunter, David Lloyd, a-w	
Hunter, Herbert, a-p	Salt Lake
Hunter, Rose B., g-3	Salt Lake
Hurst, Hugh, a-F	T ogen
Ingram, Alonzo, ss	Machi
Trying Chambers C	C-14 T -1
Ivins, Stanley, a-S	Sait Lake
Isaacson, May, ho-S. Izatt, Angus, ss	Bingham
Izatt, Angus, ss	Logan
Izatt, Irene, ss	Logan
Jackson, Donel P., a-F	Lewiston
Jackson, Wilder D., g-So	Logan
Jacobson, Evan A., a-w	Oak City
Jacobson, Evan A., a-w	Logan
James, Amasa E., ma-w	Park Valley
James, Maggie, ss	Providence
Jamison, Peery, a-3	
Janson, Gilbert L., c-S	Gunnison
Tanting Data C a 2	Locan
Jenkins, Dale S., a-2. Jensen, Bessie D., c-G. Jensen, Chrystal A., ho-Sp.	Logan
Jensen, Bessie D., c-G	Logan
Jensen, Chrystal A., no-Sp	vit. Pleasant
Jensen, Irma, ho-F	Heber City
Jensen, Eliza, ss	Sandy
Jensen, Hans E., ss	Ephraim
Jensen, Ida, ss	Heber City
Jensen, Peter D., ss	Ephraim
Innen Vera ce	Logan
Tensen Vernal a-w	. Providence
Jensen, Wm. C., Jr., a-2	. Providence
Jeppesen, Evelyn, ho-So	Geneva
Jeppson, Anthony, a-w	Logan
Jewkes, Ivan W., ma-pFou	ntain Green
Johnson, Avid H., g-3	Salt Lake
Johnson, Austin, ma-2	Holden
Johnson, Austin, Illa-2	Vernal
Johnson, Chas. H., g-2	Toman
Jonson, Elin, ho-Sp	Harda Dani-
Johnson, Floyd, a-So	. Hyde Fark
Johnson, Francis A., a-p	Hooper
Johnson, Geo. A., c-SPoca	itello, Idaho

Johnson, Hyrum E., ss	Pleasant Grove
Jonson, Hilma, go-O	Logan
Johnson, Harvey, ma-2	Preston Idaho
Johnson, Irene, ss	. Pleasant Grove
Johnson, Irene, ss	Logan
Johnson, Mark S., c-F	Holden
Johnson, Rollo, ss	Huntington
Johnson, Rush, ho-So	Logan
Ionsson, Reuben, a-3	Logan
Johnson, Thomas S., ss	Castle Dale
Johnson, Thaddeus, ma-2	
Jolley, Lafayette, ss	Washington
Jones, David W., a-So	Logan
Jones, Earl T., a-J	Lehi
Jones, Eliza A., ho-So	Newton
Jones, Hilda B., g-O	Logan
Jones, J. P., a-2	Wellsville
Jones, John L., ae-J	Monroe
Jones, Mary, ho-Sp. Jones, Rose, ss	Ogden
Jones, Rose, ss	Logan
Jones, Reta, ho-F	Monroe
Jones, Reuben M., a-F	Brigham
Iones, Ruth, ss	
Jones, T. Vernon, a-w	Payson
Jones, Wm. L., ss	Wellsville
Jordan, Alva J., a-w	Walsburg
Judd, Andrew J., ss	
Judd, Andrew J., ss Judd, Lyle P., a-3	Salt Lake
Tustesen, Osmon, g-S	Provo
Kartchner, Linda. ss	Logan
Kjar, Clinton, a-So	Manti
Kent, Meredith, ss	Logan
Kerr, Gerald, a-S	Logan
Kewley, Alice, ss	Logan
Kidgell, Lilv, ho-2	Logan
King Eliza ss	North Logan
Kirkbride, James W., g-O	Smithfield
Kidman, Lyman, ae-S	Petersboro
Kloepfer, Rachel, ho-F	Logan
Knowles, Hazel, ss	Logan
Kunz, Lottie H., ho-So	Logan
Knudson, Earl J., c-So	Brigham
Knudson, Ethel E., ho-Sp	Brigham
Knudson, I. Floyd, a-I	Brigham
Lamb. Curtis. ss	Coalville
Larsen, Ada, ss	Logan
Larsen, Estella, ho-3	Logan
Larsen, Hazel, ho-Sp	Logan
Larsen, James A., a-p	Fairview
Larsen Naomi ho-2	Logan
Larsen, Parley, a-w	Logan
Larsen, Parley, a-w Larsen, Rudolph V., c-J	Smithfield
Larsen, Ruth, ss	Garland

Larsen, Vera, c-2	Mendon
Larson, Roldo, a-p	Axtel
Latimer, Dana, c-p	Salt Lake
Laurenson, Edward J., c-S. Lauritzen, John I., a-G. Leatham, Robert P., ss.	Logan
Lauritan John I o C	Logan
Lauritzen, John I., a-G	
Leatham, Robert P., ss	Wellsville
Leatham, William P., ss	Wellsville
Leavitt, Elmer, a-w	Pichfold
Lee Eli E e Ce	Kicimeiu
Lee, Eli F., a-So. Lee, Fay, Warren, a-J.	Brignam
Lee, Fay, Warren, a-J	Hoytsville
Lee, Hazel, ho-So	Righy Idaho
Lewis Grover 2-F	Torne
T 1 337 1 D 2	Logan
Lewis, Grover, a-F. Lyle, Wesley B., ae-3.	Rigby, Idaho
Liljenquist, Lucy, ss. Lindblade, Victor, a-2. Linford, William B., ma-3. Lindquist, Ariel, a-3.	Hyrum
Lindblade Victor, a-2	I.ogan
Linford William P ma 3	Logan
Limord, william D., ma-3	Logan
Lindquist, Ariel, a-3	Logan
Little. Addie. ss	Kanab
Loosle, Reuben, a-w	Clarkston
Lorentzen, Edwin C., a-3	Calina
Lorentzen, Edwin C., a-3	
Love, Viola, ho-3	Salt Lake
Lovendale, Laura, ss	Salt Lake
Low, George Oliver, ma-w	Cardston Canada
T M!- D - T	Drawidanaa
Low, Morris D., a-J. Lowe, Lester D., c-2.	Frovidence
Lowe, Lester D., c-2	. Franklin, Idaho
I lovd Nell ss	I .0gan
Lundberg Lynne c-So	Ogden
Lundberg, Lynne, C-50	
T 1.4 To Order C - 2	Locon
Lundberg, Lynne, c-So	Logan
Luke Melvin ma-So	lunction
Luke Melvin ma-So	lunction
Luke, Melvin, ma-So	JunctionLogan
Luke, Melvin, ma-So	Junction Logan
Luke, Melvin, ma-So	Junction Logan
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So.	JunctionLoganLoganLoganLogan
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So. McAlister, Ward R., a-S.	Junction Logan Logan Logan Salt Lake
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So. McAlister, Ward R., a-S.	Junction Logan Logan Logan Salt Lake
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So. McAlister, Ward R., a-S. McBride, Brice, ae-S.	Junction Logan Logan Logan Salt Lake Payson
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So. McAlister, Ward R., a-S. McBride, Brice, ae-S. McClellan, Scott, a-w. McCullock, Ella, c-2.	Junction Logan Logan Logan Logan Logan Salt Lake Payson Logan
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So. McAlister, Ward R., a-S. McBride, Brice, ae-S. McClellan, Scott, a-w. McCullock, Ella, c-2.	Junction Logan Logan Logan Logan Logan Salt Lake Payson Logan
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F McAlister, Wallace S., a-So. McAlister, Ward R., a-S. McBride, Brice, ae-S. McClellan, Scott, a-w. McCullock, Ella, c-2. McCullock, Lawrence, a-3. McDonald, Storm ae-So.	Junction Logan Logan Logan Logan Salt Lake Payson Logan Logan Logan Logan Logan
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F McAlister, Wallace S., a-So. McAlister, Ward R., a-S. McBride, Brice, ae-S. McClellan, Scott, a-w. McCullock, Ella, c-2. McCullock, Lawrence, a-3. McDonald, Storm ae-So.	Junction Logan Logan Logan Logan Salt Lake Payson Logan Logan Logan Logan Logan
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So. McAlister, Ward R., a-S. McBride, Brice, ae-S. McClellan, Scott, a-w. McCullock, Ella, c-2. McCullock, Lawrence, a-3. McDonald, Storm, ae-So. McGregor Chas P. g-S	Junction Logan Logan Logan Salt Lake Payson Logan Logan Cogan Logan Logan Logan Logan Logan
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So. McAlister, Ward R., a-S. McBride, Brice, ae-S. McClellan, Scott, a-w. McCullock, Ella, c-2. McCullock, Lawrence, a-3. McDonald, Storm, ae-So. McGregor, Chas. P., g-S. McMullin Thomas a-w.	Junction Logan Logan Logan Salt Lake Payson Logan Heber City
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So. McAlister, Ward R., a-S. McBride, Brice, ae-S. McClellan, Scott, a-w. McCullock, Ella, c-2. McCullock, Lawrence, a-3. McDonald, Storm, ae-So. McGregor, Chas. P., g-S. McMullin, Thomas, a-w.	Junction Logan Logan Logan Logan Logan Salt Lake Payson Logan Logan Logan Cleveland, Idaho Heber City Logan
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So. McAlister, Ward R., a-S. McBride, Brice, ae-S. McClellan, Scott, a-w. McCullock, Ella, c-2. McCullock, Lawrence, a-3. McDonald, Storm, ae-So. McGregor, Chas. P., g-S. McMullin, Thomas, a-w. McMullin, Wm., ss. McMullin, Wm., ss.	Junction Logan Logan Logan Salt Lake Payson Logan
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So. McAlister, Ward R., a-S. McBride, Brice, ae-S. McClellan, Scott, a-w. McCullock, Ella, c-2. McCullock, Lawrence, a-3. McDonald, Storm, ae-So. McGregor, Chas. P., g-S. McMullin, Thomas, a-w. McMullin, Wm., ss. McMullin, Wm., ss.	Junction Logan Logan Logan Salt Lake Payson Logan
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So. McAlister, Ward R., a-S. McBride, Brice, ae-S. McClellan, Scott, a-w. McCullock, Ella, c-2. McCullock, Lawrence, a-3. McDonald, Storm, ae-So. McGregor, Chas. P., g-S. McMullin, Thomas, a-w. McMullin, Wm., ss. McMurrin, Edith, c-p. Mackelprang Trene ss.	Junction Logan Logan Logan Salt Lake Payson Logan Cleveland, Idaho Heber City Logan Logan Codar City
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So. McAlister, Ward R., a-S. McBride, Brice, ae-S. McClellan, Scott, a-w. McCullock, Ella, c-2. McCullock, Lawrence, a-3. McDonald, Storm, ae-So. McGregor, Chas. P., g-S. McMullin, Thomas, a-w. McMullin, Wm., ss. McMurrin, Edith, c-p. Mackelprang, Irene, ss.	Junction Logan Logan Logan Logan Salt Lake Payson Logan Logan Logan Heber City Cleveland, Idaho Heber City Logan Cogan Cogan Logan Cedar City Manti
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So. McAlister, Ward R., a-S. McBride, Brice, ae-S. McClellan, Scott, a-w. McCullock, Ella, c-2. McCullock, Lawrence, a-3. McDonald, Storm, ae-So. McGregor, Chas. P., g-S. McMullin, Thomas, a-w. McMullin, Wm., ss. McMurrin, Edith, c-p. Mackelprang, Irene, ss.	Junction Logan Logan Logan Logan Salt Lake Payson Logan Logan Logan Heber City Cleveland, Idaho Heber City Logan Cogan Cogan Logan Cedar City Manti
Luke, Melvin, ma-So McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So McAlister, Ward R., a-S. McBride, Brice, ae-S. McClellan, Scott, a-w. McCullock, Ella, c-2. McCullock, Ella, c-2. McDonald, Storm, ae-So. McGregor, Chas. P., g-S. McMullin, Thomas, a-w. McMullin, Wm., ss. McMurrin, Edith, c-p. Mackelprang, Irene, ss. Madsen, Orson, a-So. Madsen, Roy M., a-S.	Junction Logan Logan Logan Logan Salt Lake Payson Logan Logan Logan Logan Logan Logan Logan Cleveland, Idaho Heber City Logan Logan Codar City Manti
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So. McAlister, Ward R., a-S. McBride, Brice, ae-S. McClellan, Scott, a-w. McCullock, Ella, c-2. McCullock, Lawrence, a-3. McDonald, Storm, ae-So. McGregor, Chas. P., g-S. McMullin, Thomas, a-w. McMullin, Wm., ss. McMurrin, Edith, c-p. Mackelprang, Irene, ss. Madsen, Orson, a-So. Madsen, Roy M., a-S. Madsen, Stanford, ae-So.	Junction Logan Logan Logan Salt Lake Payson Logan Logan Logan Logan Logan Logan Logan Logan Heber City Logan Logan Logan Manti Heber City
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So. McAlister, Ward R., a-S. McBride, Brice, ae-S. McClellan, Scott, a-w. McCullock, Ella, c-2. McCullock, Lawrence, a-3. McDonald, Storm, ae-So. McGregor, Chas. P., g-S. McMullin, Thomas, a-w. McMullin, Wm., ss. McMurrin, Edith, c-p. Mackelprang, Irene, ss. Madsen, Orson, a-So. Madsen, Roy M., a-S. Madsen, Stanford, ae-So.	Junction Logan Logan Logan Salt Lake Payson Logan Logan Logan Logan Logan Logan Logan Logan Heber City Logan Logan Logan Manti Heber City
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So. McAlister, Ward R., a-S. McBride, Brice, ae-S. McClellan, Scott, a-w. McCullock, Ella, c-2. McCullock, Ella, c-2. McCullock, Lawrence, a-3. McDonald, Storm, ae-So. McGregor, Chas. P., g-S. McMullin, Thomas, a-w. McMullin, Wm., ss. McMurrin, Edith, c-p. Mackelprang, Irene, ss. Madsen, Orson, a-So. Madsen, Roy M., a-S. Madsen, Stanford, ae-So. Mahoney, Rollo, ss.	Junction Logan Logan Logan Logan Salt Lake Payson Logan Logan Logan Logan Logan Logan Logan Cleveland, Idaho Heber City Logan Codar City Manti Gunnison Manti Heber City
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So. McAlister, Ward R., a-S. McBride, Brice, ae-S. McClellan, Scott, a-w. McCullock, Ella, c-2. McCullock, Lawrence, a-3. McDonald, Storm, ae-So. McGregor, Chas. P., g-S. McMullin, Thomas, a-w. McMullin, Wm., ss. McMurrin, Edith, c-p. Mackelprang, Irene, ss. Madsen, Orson, a-So. Madsen, Roy M., a-S. Madsen, Stanford, ae-So. Mahoney, Rollo, ss. Major, Jack, g-S.	Junction Logan Logan Logan Logan Salt Lake Payson Logan Logan Logan Logan Logan Logan Cleveland, Idaho Heber City Logan
Luke, Melvin, ma-So. McAllister, Chas. K., c-2. McAlister, Irvine L., a-F. McAlister, Wallace S., a-So. McAlister, Ward R., a-S. McBride, Brice, ae-S. McClellan, Scott, a-w. McCullock, Ella, c-2. McCullock, Lawrence, a-3. McDonald, Storm, ae-So. McGregor, Chas. P., g-S. McMullin, Thomas, a-w. McMullin, Wm., ss. McMurrin, Edith, c-p. Mackelprang, Irene, ss. Madsen, Orson, a-So. Madsen, Roy M., a-S. Madsen, Stanford, ae-So. Mahoney, Rollo, ss. Major, Jack, g-S.	Junction Logan Logan Logan Logan Salt Lake Payson Logan Logan Logan Logan Logan Logan Cleveland, Idaho Heber City Logan
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Maughan, Aug, 55	п
Maughan, Armenia, ho-SpLogar	n
Maughan, Edward L., a-2Loga.	n
Maughan, Howard J., a-G. Loga:	n
Maughan, J. Howard, a-SoLogar	n
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Merrill, Don C., a-3Richmond	d
Merrill, Gladys, ho-2Smithfield	
Merrill, John C., a-3	a
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Monson, Ezra P., c-3Franklin, Idaho	0
Monson, LeRoy, c-SoLogar	n
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Moore, Harry, c-2Kimberley, Idaho	0
Morgan, Kate, g-OLogar	n
Morrill, Rupert, ae-J	
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Morrison, Alice, ho-JBrigham	1
Mortensen, Lowell J., a-SoBrighan	1
Mortensen, Martin, ae-So	
Moses, Elmer W., a-3Smithfield	1
Moses Phoehe ho-2 Smithfield	1
Mouritsen, Emma, L., ho-J. Logar Munk, Cyril K., c-2. King	a
Munk, Cyril K., c-2King	Ϋ́
Murdock, Wallace, a-So	v
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Murray, Elva, ssWellsville	e
Murray, Louise E., g-SpAthens, Pa	
Nash, Bartlett, a-3Franklin, Idaho	
Nash, Fern A., g-2Franklin, Idaho	
Nach Laura of Franklin Idaho	
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Nebeker, Marie, m-SpLogan	
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Nelson, Anna, ho-F	
Nelson, Agnes, ho-3Logan	
Nelson, D. I., c-SLogan	
Nelson, D. J., c-S. Logan Nelson, Estella, ho-F Logan	
Nelson, Enoch, ssLogan	
Nelson, Etta, ssLogan	
Nelson, Freda, g-OBrigham	
Nelson, Irvin T., a-So	
Nelson, Jennie D., ssLogan	
Nelson, Lowry, a-SoFerron	
Nelson, Lloyd, ma-wFerron	
Nelson, Luella, ho-4Logan	
Nelson, Myrtle, ssLogan	
Nelson, Myrtie, ss	
Nelson, Myra, c-2Logan	
Nelson, Olif H., ae-JLogan	
Nelson, Ross, c-wOakley, Idaho	
Nelson, Rebecca A., c-p. Logan Newey, Aaron, c-G. Logan	
Newey, Aaron, c-GLogan	
Newman, Bessie A., ss	
Nibley, Carlyle, g-2Logan	
Nibley, Florence, ho-3Logan	
Nibley, Margaret, g-OLogan	
Nichols, A. Delore, a-OBrigham	
Nichols, Bernard, a-So Brigham	
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Nielson, Ella, ho-F	
Nielsen, Geo. W., ma-w	
Nielsen, Glen Z., ma-2Axtell	
Nielsen, Hyrum J., a-3Logan	
Nielsen, Niels K., ss	
Nielsen, Mrs. Niels K., ss	
Nielsen, Pearl, ho-SLogan	
Nielsen, Vera E., ho-FLogan	
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Nisson Clarence W c-4	1
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Nisson, Clarence W., c-4. Logan Nordquist, Hilda, ho-Sp. Ogden Norman, Alta, ho-Sp. Logan Norman, Blanche, ho-Sp. Logan Nuttal, Leonard G., ae-So. Manchester, England Obray, Isabella, ss. Paradise Oldham, Delia, ss. Paradise	
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Nisson, Clarence W., c-4. Nordquist, Hilda, ho-Sp. Norman, Alta, ho-Sp. Norman, Blanche, ho-Sp. Logan Nuttal, Leonard G., ae-So. Manchester, England Obray, Isabella, ss. Oldham, Delia, ss. Paradise Oldham, Mabel, ss. Paradise Odell, Joseph C., a-3. Logan Ogden, Louise, ho-So. Olsen, Daniel F., a-J. Olsen, Daniel K., a-w. Dean Esther ho-So. Logan Olsen, Esther ho-So. Logan	
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Olsen, Leo, a-wLewiston	
Olsen, Orson, a-w	
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Olsen, Pearl, c-4Logan	
Orme, John A., a-wTooele	
Ostler, Ruby, ho-JSalt Lake	
Otte, Joseph E., a-SpLogan	
Otte, Joseph E., a-Sp	
Owen, Cyril B., a-SoWellsville	
Owen, Grettle B., ho-FWellsville	
Oldroyd, Colleen, ho-SpGlenwood	
Oldroyd, Conice, no-Sp.	
Oldroyd, Lorin T., a-SoGlenwood	
Orton, Joseph A., ma-wOgden	
Osmund, Charles A., g-SoLogan	
Osmund, Ruby, ho-2Logan	
Ontail, R. 111. T. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
Ostlund, Lillian T., ho-JLogan	
Pace, Barbara, g-SoPrice	
Pace, Carl, c-3Loa	
Packard, David R., c-JSpringville	
rackard, David R., c-j	
Page, Irma, ho-Sp	
Palmer, Asael E., g-F	
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Tainer, valentine vv., c-J	
Park, Libbie, ho-SoLogan	
Parker, Clyde L., ae-SoAmerican Fork	
Parker, Sarah, ho-JAmerican Fork	
Parkinson, Alice, ho-SpLogan	
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Parkinson, E. Benson, c-SLogan	
Parkinson, Karma, ho-2Logan	
Parrish, Afton, ho-S. Farmington Parry, Brigham, a-w. Logan	
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rairy, Bilgham, a-w	
Parry, Charlotte, ssManti	
Parry, Gronway R., a-SSalt Lake	
Parry, Martha, ssLogan	
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Parry, Vaughn, ssLogan	
Parry, Winifred, ssManti	
Paskett, Elsie, ss	
Passey, Edward J., ssParis, Idaho	
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Payson, Kenneth, ae-SoLogan	
Peacock, Byron C., ma-pEmery	
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Pence, John O., c-SLogan	
Pense, Thurston, a-3Logan	
Pendleton, John H., ma-SoParowan	
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Perry, Stephen C., a-JOgden	
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Peterson, Donna, ho-2Logan	
Peterson, Edna L., c-3Smithfield	
Peterson Esther ss	
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Peterson, Ferdinand A., c-pRedmond	

Peterson, Harold, g-FLogan
Peterson, Hugh C., g-SoPreston, Idaho
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Peters, Laura, ss
Peterson, Lillie, ss
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Peterson, Laurence, a-wEphraim
Peterson, Martin B., a-JRiverton
Determine Mattie 1. C
Peterson, Nettie, ho-SLogan
Peterson, Othelia, ho-JLogan
Peterson, Quayle, a-SoEphraim
Peterson, Soren P., ss
Peterson, Violet, ssSmithfield
Peterson, William O., a-2Logan
Pett, Ella, ssBrigham
rett, Ena, ssBrigham
Pettit, Mabel, ss
Preston Clayton P g-3
Descen William D. so
Preston, William B., ssLogan
Pickett, Ray, g-wProvidence
Pickett, Ray, g-w Providence Price, Ezra R., a-S Salt Lake
D. L. C. L
Priday, Chloe, ssLogan
Pond, Horace, a-SoLewiston
Pond, Mary, ho-FLewiston
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Pond, Preston, c-FLewiston Pond, William L. a-SLewiston
Pond. William L. a-SLewiston
Porter, Anna, c-3Franklin, Idaho
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Porter, Alberta, ho-FLogan
Porter, Ina, ho-3Logan
Porter, Parley M., a-2Logan
Porter, Ralph O., ss
Porter, Kalon U., ss
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Porter, Thomas H., ssLogan
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Porter, Thomas H., ss. Logan Powell, Hartlett, a-S. Salt Lake Powell, Morrel, a-F. Coalville Pugmire, Stella, ss. St. Charles, Idaho Pulley, Edward P., g-G. Logan Ouavle. William ss. Logan
Porter, Thomas H., ss. Logan Powell, Hartlett, a-S. Salt Lake Powell, Morrel, a-F. Coalville Pugmire, Stella, ss. St. Charles, Idaho Pulley, Edward P., g-G. Logan Quayle, William ss. Logan Quinn, Charles, ss. Salt Lake
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Porter, Thomas H., ss Logan Powell, Hartlett, a-S. Salt Lake Powell, Morrel, a-F. Coalville Pugmire, Stella, ss St. Charles, Idaho Pulley, Edward P., g-G Logan Quayle, William ss Logan Quinn, Charles, ss Salt Lake Ralph, Clara, ss Salt Lake Ralph, Leonard T., c-4 Logan Ralph, Ross P. c-Sp. Landing, Idaho
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Porter, Thomas H., ss Logan Powell, Hartlett, a-S. Salt Lake Powell, Morrel, a-F. Coalville Pugmire, Stella, ss St. Charles, Idaho Pulley, Edward P., g-G. Logan Quayle, William ss Logan Quinn, Charles, ss Salt Lake Ralph, Clara, ss Salt Lake Ralph, Leonard T., c-4 Logan Ralph, Ross P., c-Sp Landing, Idaho Ratcliff, Robt. R., a-S Provo Rawlins, Fern, ss Lewiston Raymond Goodwin 2-3 Smithfield
Porter, Thomas H., ss Logan Powell, Hartlett, a-S. Salt Lake Powell, Morrel, a-F. Coalville Pugmire, Stella, ss St. Charles, Idaho Pulley, Edward P., g-G. Logan Quayle, William ss Logan Quinn, Charles, ss Salt Lake Ralph, Clara, ss Salt Lake Ralph, Leonard T., c-4 Logan Ralph, Ross P., c-Sp Landing, Idaho Ratcliff, Robt. R., a-S Provo Rawlins, Fern, ss Lewiston Raymond Goodwin 2-3 Smithfield
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Porter, Thomas H., ss Logan Powell, Hartlett, a-S. Salt Lake Powell, Morrel, a-F. Coalville Pugmire, Stella, ss St. Charles, Idaho Pulley, Edward P., g-G Logan Quayle, William ss Logan Quinn, Charles, ss Salt Lake Ralph, Clara, ss Salt Lake Ralph, Leonard T., c-4 Logan Ralph, Ross P., c-Sp Landing, Idaho Ratcliff, Robt. R., a-S Provo Rawlins, Fern, ss Lewiston Raymond, Goodwin, a-3 Smithfield Raymond, Loila, ss Smithfield Reader, Harold, c-2 Vernal
Porter, Thomas H., ss Logan Powell, Hartlett, a-S. Salt Lake Powell, Morrel, a-F. Coalville Pugmire, Stella, ss St. Charles, Idaho Pulley, Edward P., g-G Logan Quayle, William ss Logan Quinn, Charles, ss Salt Lake Ralph, Clara, ss Salt Lake Ralph, Leonard T., c-4 Logan Ralph, Ross P., c-Sp Landing, Idaho Ratcliff, Robt. R., a-S Provo Rawlins, Fern, ss Lewiston Raymond, Goodwin, a-3 Smithfield Raymond, Loila, ss Smithfield Reader, Harold, c-2 Vernal Reeder, Moses, g-S Hyde Park
Porter, Thomas H., ss Logan Powell, Hartlett, a-S. Salt Lake Powell, Morrel, a-F. Coalville Pugmire, Stella, ss St. Charles, Idaho Pulley, Edward P., g-G Logan Quayle, William ss Logan Quinn, Charles, ss Salt Lake Ralph, Clara, ss Salt Lake Ralph, Leonard T., c-4 Logan Ralph, Ross P., c-Sp Landing, Idaho Ratcliff, Robt. R., a-S Provo Rawlins, Fern, ss Lewiston Raymond, Goodwin, a-3 Smithfield Raymond, Loila, ss Smithfield Reader, Harold, c-2 Vernal Reeder, Moses, g-S Hyde Park
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Porter, Thomas H., ss Logan Powell, Hartlett, a-S. Salt Lake Powell, Morrel, a-F. Coalville Pugmire, Stella, ss St. Charles, Idaho Pulley, Edward P., g-G. Logan Quayle, William ss Logan Quinn, Charles, ss Salt Lake Ralph, Clara, ss Salt Lake Ralph, Leonard T., c-4 Logan Ralph, Ross P., c-Sp Landing, Idaho Ratcliff, Robt. R., a-S Provo Rawlins, Fern, ss Lewiston Raymond, Goodwin, a-3 Smithfield Raymond, Loila, ss Smithfield Reader, Harold, c-2 Vernal Reeder, Moses, g-S Hyde Park Reese, David L., a-p Logan
Porter, Thomas H., ss Logan Powell, Hartlett, a-S. Salt Lake Powell, Morrel, a-F. Coalville Pugmire, Stella, ss. St. Charles, Idaho Pulley, Edward P., g-G. Logan Quayle, William ss. Logan Quinn, Charles, ss. Salt Lake Ralph, Clara, ss. Salt Lake Ralph, Leonard T., c-4 Logan Ralph, Ross P., c-Sp. Landing, Idaho Ratcliff, Robt. R., a-S. Provo Rawlins, Fern, ss. Lewiston Raymond, Goodwin, a-3 Smithfield Raymond, Loila, ss. Smithfield Reader, Harold, c-2 Vernal Reeder, Moses, g-S. Hyde Park Reese, David L., a-p. Logan Reese, Iesse I., a-2 Benson
Porter, Thomas H., ss Logan Powell, Hartlett, a-S. Salt Lake Powell, Morrel, a-F. Coalville Pugmire, Stella, ss. St. Charles, Idaho Pulley, Edward P., g-G. Logan Quayle, William ss. Logan Quinn, Charles, ss. Salt Lake Ralph, Clara, ss. Salt Lake Ralph, Leonard T., c-4 Logan Ralph, Ross P., c-Sp. Landing, Idaho Ratcliff, Robt. R., a-S. Provo Rawlins, Fern, ss. Lewiston Raymond, Goodwin, a-3 Smithfield Raymond, Loila, ss. Smithfield Reader, Harold, c-2 Vernal Reeder, Moses, g-S. Hyde Park Reese, David L., a-p. Logan Reese, Iesse I., a-2 Benson
Porter, Thomas H., ss Logan Powell, Hartlett, a-S. Salt Lake Powell, Morrel, a-F. Coalville Pugmire, Stella, ss. St. Charles, Idaho Pulley, Edward P., g-G. Logan Quayle, William ss. Logan Quinn, Charles, ss. Salt Lake Ralph, Clara, ss. Salt Lake Ralph, Leonard T., c-4 Logan Ralph, Ross P., c-Sp. Landing, Idaho Ratcliff, Robt. R., a-S. Provo Rawlins, Fern, ss. Lewiston Raymond, Goodwin, a-3 Smithfield Raymond, Loila, ss. Smithfield Reader, Harold, c-2 Vernal Reeder, Moses, g-S. Hyde Park Reese, David L., a-p. Logan Reese, Iesse I., a-2 Benson
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Porter, Thomas H., ss Logan Powell, Hartlett, a-S. Salt Lake Powell, Morrel, a-F. Coalville Pugmire, Stella, ss. St. Charles, Idaho Pulley, Edward P., g-G. Logan Quayle, William ss. Logan Quinn, Charles, ss. Salt Lake Ralph, Clara, ss. Salt Lake Ralph, Leonard T., c-4 Logan Ralph, Ross P., c-Sp. Landing, Idaho Ratcliff, Robt. R., a-S. Provo Rawlins, Fern, ss. Lewiston Raymond, Goodwin, a-3 Smithfield Raymond, Loila, ss. Smithfield Raymond, Loila, ss. Smithfield Reader, Harold, c-2 Vernal Reeder, Moses, g-S. Hyde Park Reese, David L., a-p. Logan Reese, Ione, ho-J. King Reese, Jesse L., a-2. Benson Reese, Naomi, ho-S. King Reese, Ray H., ma-w Wales Reese Sarah ho-3 Benson
Porter, Thomas H., ss Logan Powell, Hartlett, a-S. Salt Lake Powell, Morrel, a-F. Coalville Pugmire, Stella, ss St. Charles, Idaho Pulley, Edward P., g-G Logan Quayle, William ss Logan Quinn, Charles, ss Salt Lake Ralph, Clara, ss Salt Lake Ralph, Leonard T., c-4 Logan Ralph, Ross P., c-Sp Landing, Idaho Ratcliff, Robt. R., a-S Provo Rawlins, Fern, ss Lewiston Raymond, Goodwin, a-3 Smithfield Raymond, Goodwin, a-3 Smithfield Raymond, Loila, ss Smithfield Reader, Harold, c-2 Vernal Reeder, Moses, g-S Hyde Park Reese, David L., a-p Logan Reese, Ione, ho-J King Reese, Jesse L., a-2 Benson Reese, Naomi, ho-S King Reese, Ray H. ma-w Wales

Reid, Edward P., g-SoLogan
Reid, Hazel H., ho-3Salt Lake
Reid, Lee E., c-p. Preston, Idaho Reid, May, ss. Logan
Reid May ss Logan
Duham Edith of
Ryberg, Edith, ssLogan
Rich, Emeline G., c-SpLogan
Rich, Geo. Q., c-SpLogan
Rich, Mary, ho-2Vernal
Richards, Alta, ho-SpLogan
Richards, Ann, ho-J
Richards, Bert L., a-GLogan
Richards, Dert L., a-GLogan
Richards, Wm. B. L., ssLogan
Richards, Carrie, ho-JLogan
Richards, Ella C., g-ŠpLogan
Richardson, Ivie, g-S. Logan Richardson, Jacob Z., g-So. Logan
Richardson Jacob 7 g-So Jogan
Dishardson Loving to Sa Smithfuld
Richardson, Lovina, ho-Sp. Smithfield Ricks, Willard R., a-3. Benson
Ricks, Willard R., a-3Benson
Rideout, Evelyn, ssDraper
Rider, Rowland W., ae-SoKanab
Rigby, Elmer C., a-So
Rinderknecht, Annie, ssProvidence
Riter, Levi R., a-2Logan
Riter, Levi R., a-2
Riter, Samuel W., c-3. Logan Roberts, Artie A., ma-2. Kanosh
Roberts, Artie A., ma-2Kanosh
Robinson, D. E., g-GLogan
Robinson, Iane A., ssSalt Lake
Robinson, Jesse S., a-JParagonah
Rollins, Grover C., ma-w
Romney, Heber J., a-So
Ronnow, Charles L., ae-SoLas Vegas, Nev.
Rosengreen, Enid J., ho-2Logan
Rosengreen, Ruth, ho-3Logan
Roskelley, James, a-3. Smithfield Rowe, Ross T., a-J. Spanish Fork
Rowe, Ross T., a-JSpanish Fork
Rouse John Elmer a-So Springville
Sabev. Phyllis. c-2
Salisbury, Joseph G., a-SoLogan
Sandberg, Emily, ss
Sargent, David LeRoy, a-S
Salgent, David Lexoy, 4-5
Shackelford, Wm. J., a-So
Sharp, Adeline B., ssLogan
Sharp, John A., a-SVernon
Shaw, Mary, ho-SLogan
Shaw, Oril, ssOgden
Shaw, Samuel A., a-wOgden
Slack Leonard ss
Smalley Orton g-O
Smalley, Orton, g-O. Logan Smart, Georgia U., ho-2. Logan
Spande, Mabel, ho-FLogan
Spande, Sybil, ho-2Logan
Spande, Sybii, no-2Logan
Stander, George H., ma-wBlackfoot, Ida.

A CONTRACTOR OF THE CONTRACTOR
Standley, Newel S., ma-pLogan
Starley, William I., a-So Fillmore
Strate Fred C as
Strate, Fred C., ss. Spring City Straw, LaPrele, ho-Sp. Springville
Straw, LaPrele, no-SpSpringville
Swain, Roy, a-wMonroe
Sells, Albert E., a-JNephi
Sessions, Charles E., ae-F. Syracuse
Syracuse D., de-F
Sevey, Blaine, a-3. Panguitch Schweitzer, Howard B., a-G. Bingham
Schweitzer, Howard B., a-GBingham
Sheets, Merlen, ho-SpSalt Lake
Shelley, Percy N., a-SLogan
Charland N T - C
Shepherd, N. T., c-Sp
Sneddon, Bessie R., c-pLogan
Stephens, Edwin W., a-S
Stephenson William A 9-3 Holden
Stewart, Archibald J., a-3. Logan
Stewart, Archibard J., a-5
Stewart, Ella, no-1
Stewart, Eugene, a-JLogan
Stewart, George, a-GTooele
Stewart, James H., ss
Stewart, Thelma, ho-2Logan
Stewart, Thelma, no-2
Stewart, Walter, c-3Logan
Swenson, Dan A., ma-JLogan
Simmons, Martha, g-GSmithfield
Sims, Ida, ss
Sillis, Ida, 55
Sinclair, Earl E., a-wSt. Anthony, Idaho
Smith, Albert T., ae-2
Dintin, Miscre L., ac 2
Smith, Clifford, c-4
Smith, Clifford, c-4Smithfield
Smith, Clifford, c-4
Smith, Clifford, c-4. Smithfield Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City
Smith, Clifford, c-4 Smithfield Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-I. Logan
Smith, Clifford, c-4. Smithfield Smith, David W., a-J Salt Lake Smith, Douglas, ae-w Heber City Smith, Edwin S., a-J Logan Smith, Ethel S., g-O Salt Lake
Smith, Clifford, c-4. Smithfield Smith, David W., a-J Salt Lake Smith, Douglas, ae-w Heber City Smith, Edwin S., a-J Logan Smith, Ethel S., g-O Salt Lake
Smith, Clifford, c-4. Smithfield Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J. Logan Smith, Ethel S., g-O. Salt Lake Smith, Fera L., a-w. Draper
Smith, Clifford, c-4. Smithfield Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J. Logan Smith, Ethel S., g-O Salt Lake Smith, Fera L., a-w. Draper Smith, Gladys W., c-O. Logan
Smith, Clifford, c-4. Smithfield Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J. Logan Smith, Ethel S., g-O. Salt Lake Smith, Fera L., a-w. Draper Smith, Gladys W., c-O. Logan Smith, Golden G., a-w Logan
Smith, Clifford, c-4. Smithfield Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J. Logan Smith, Ethel S., g-O. Salt Lake Smith, Fera L., a-w. Draner Smith, Gladys W., c-O. Logan Smith, Golden G., a-w Logan Smith, Heber L., a-So. Logan
Smith, Clifford, c-4. Smithfield Smith, David W., a-J Salt Lake Smith, Douglas, ae-w Heber City Smith, Edwin S., a-J Logan Smith, Ethel S., g-O Salt Lake Smith, Fera L., a-w Draper Smith, Gladys W., c-O Logan Smith, Golden G., a-w Logan Smith, Heber L. a-So Logan Smith, Irene, ho-2 Logan
Smith, Clifford, c-4. Smithfield Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J. Logan Smith, Ethel S., g-O. Salt Lake Smith, Fera L., a-w. Draper Smith, Gladys W., c-O. Logan Smith, Golden G., a-w Logan Smith, Heber L. a-So. Logan Smith, Irene, ho-2. Logan Smith, Laceb I. ma-w. Logan
Smith, Clifford, c-4. Smithfield Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J. Logan Smith, Ethel S., g-O. Salt Lake Smith, Fera L., a-w. Draper Smith, Gladys W., c-O. Logan Smith, Golden G., a-w Logan Smith, Heber L. a-So. Logan Smith, Irene, ho-2. Logan Smith, Laceb I. ma-w. Logan
Smith, Clifford, c-4. Smithfield Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J. Logan Smith, Ethel S., g-O. Salt Lake Smith, Fera L., a-w. Draper Smith, Gladys W., c-O. Logan Smith, Golden G., a-w Logan Smith, Heber L. a-So. Logan Smith, Irene, ho-2. Logan Smith, Jacob I. ma-w. Logan Smith, Jacob I. ma-w. Logan Smith, James C. g-F. Centerville
Smith, Clifford, c-4. Smithfield Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J. Logan Smith, Ethel S., g-O. Salt Lake Smith, Fera L., a-w. Draper Smith, Gladys W., c-O. Logan Smith, Golden G., a-w Logan Smith, Heber L. a-So. Logan Smith, Irene, ho-2. Logan Smith, Iacob I., ma-w Logan Smith, James C., g-F. Centerville Smith Joseph E. a-w Lehi
Smith, Clifford, c-4. Smithfield Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J. Logan Smith, Ethel S., g-O. Salt Lake Smith, Fera L., a-w. Draper Smith, Gladys W., c-O. Logan Smith, Golden G., a-w Logan Smith, Heber L. a-So. Logan Smith, Heber L. a-So. Logan Smith, Irene, ho-2. Logan Smith, Jacob I. ma-w Logan Smith, Jacob I. ma-w Logan Smith, Jacob I. sp-F. Centerville Smith, Joseph E., a-w Lehi Smith Leslie A. g-G. Logan
Smith, Clifford, c-4. Smithfield Smith, David W., a-J Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J Logan Smith, Ethel S., g-O Salt Lake Smith, Fera L., a-w. Draper Smith, Gladys W., c-O Logan Smith, Golden G., a-w Logan Smith, Heber L. a-So Logan Smith, Irene, ho-2 Logan Smith, Jacob I. ma-w Logan Smith, Jacob I. ma-w Logan Smith, James C., g-F Centerville Smith, Joseph E., a-w Lepi Smith, Lepia A., g-G Logan
Smith, Clifford, c-4. Smithfield Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J. Logan Smith, Ethel S., g-O. Salt Lake Smith, Fera L., a-w. Draper Smith, Gladys W., c-O. Logan Smith, Golden G., a-w Logan Smith, Heber L. a-So. Logan Smith, Irene, ho-2. Logan Smith, Irene, ho-2. Logan Smith, Jacob I. ma-w Logan Smith, James C., g-F. Centerville Smith, Joseph E., a-w Lehi Smith, Leslie A., g-G. Logan Smith, Leslie A., g-G. Logan Smith, Leona, ho-3. Logan Smith, Leona, ho-3.
Smith, Clifford, c-4. Smithfield Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J. Logan Smith, Ethel S., g-O. Salt Lake Smith, Fera L., a-w. Draper Smith, Gladys W., c-O. Logan Smith, Golden G., a-w Logan Smith, Heber L. a-So. Logan Smith, Irene, ho-2. Logan Smith, Irene, ho-2. Logan Smith, Jacob I. ma-w Logan Smith, James C., g-F. Centerville Smith, Joseph E., a-w Lehi Smith, Leslie A., g-G. Logan Smith, Leslie A., g-G. Logan Smith, Leona, ho-3. Logan Smith, Leona, ho-3.
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Smith, Clifford, c-4. Smithfield Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J. Logan Smith, Ethel S., g-O. Salt Lake Smith, Fera L., a-w. Draper Smith, Gladys W., c-O. Logan Smith, Golden G., a-w Logan Smith, Heber L., a-So. Logan Smith, Irene, ho-2. Logan Smith, Jacob I., ma-w Logan Smith, James C., g-F. Centerville Smith, Joseph E., a-w Lehi Smith, Leslic A., g-G. Logan Smith, Leona, ho-3. Logan Smith, Leona, ho-3. Logan Smith, Marian L. ho-F Logan Smith, Marian L. ho-F Logan Smith, Ralph A ae-2 Logan
Smith, Clifford, c-4. Smithfield Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J. Logan Smith, Ethel S., g-O. Salt Lake Smith, Fera L., a-w. Draper Smith, Gladys W., c-O. Logan Smith, Golden G., a-w Logan Smith, Heber L. a-So. Logan Smith, Irene, ho-2. Logan Smith, Jacob I., ma-w. Logan Smith, James C., g-F. Centerville Smith, Joseph E., a-w Lefi Smith, Leslie A., g-G. Logan Smith, Leona, ho-3. Logan Smith, Leona, ho-3. Logan Smith, Marian L., ho-F. Logan Smith, Marian L., ho-F. Logan Smith, Ralph A., ae-2. Logan Smith, Ralph A., ae-2. Logan
Smith, Clifford, c-4. Smithfield Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J. Logan Smith, Ethel S., g-O. Salt Lake Smith, Fera L., a-w. Draper Smith, Gladys W., c-O. Logan Smith, Golden G., a-w. Logan Smith, Heber L. a-So. Logan Smith, Irene, ho-2. Logan Smith, James C., g-F. Centerville Smith, Joseph E., a-w. Logan Smith, Leslie A., g-G. Logan Smith, Leona, ho-3. Logan Smith, Leona, ho-3. Logan Smith, Marian L. ho-F. Logan Smith, Marian L. ho-F. Logan Smith, Ralph A. ae-2. Logan Smith, Ralph A. ae-2. Logan Smith, Ray, a-S. Salt Lake
Smith, Clifford, c-4. Smithfield Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J. Logan Smith, Ethel S., g-O. Salt Lake Smith, Fera L., a-w. Draper Smith, Gladys W., c-O. Logan Smith, Golden G., a-w. Logan Smith, Heber L. a-So. Logan Smith, Irene, ho-2. Logan Smith, James C., g-F. Centerville Smith, Joseph E., a-w. Logan Smith, Leslie A., g-G. Logan Smith, Leona, ho-3. Logan Smith, Leona, ho-3. Logan Smith, Marian L. ho-F. Logan Smith, Marian L. ho-F. Logan Smith, Ralph A. ae-2. Logan Smith, Ralph A. ae-2. Logan Smith, Ray, a-S. Salt Lake
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Smith, Clifford, c-4. Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J. Logan Smith, Ethel S., g-O. Salt Lake Smith, Fera L., a-w. Draper Smith, Gladys W., c-O. Logan Smith, Golden G., a-w Logan Smith, Heber L. a-So. Logan Smith, Irene, ho-2. Logan Smith, Jacob I. ma-w. Logan Smith, Jacob I. ma-w. Logan Smith, Joseph E., a-w. Lehi Smith, Leslie A., g-G. Smith, Leona, ho-3. Smith, Leona, ho-3. Smith, Marian L. ho-F. Logan Smith, Marian L. ho-F. Logan Smith, Ralph A. ae-2. Logan Smith, Ralph A. ae-2. Logan Smith, Ruby, ho-So. Salt Lake Smith, Ruby, ho-So. Sold Logan Smith, Ruby, ho-So. Salt Lake Smith, Willis, Alvin c-Sp.
Smith, Clifford, c-4. Smithfield Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J. Logan Smith, Ethel S., g-O. Salt Lake Smith, Fera L., a-w. Draper Smith, Gladys W., c-O. Logan Smith, Golden G., a-w Logan Smith, Heber L. a-So. Logan Smith, Irene, ho-2. Logan Smith, Jacob I., ma-w Logan Smith, James C., g-F. Centerville Smith, Joseph E., a-w Lefi Smith, Leslie A., g-G. Logan Smith, Leona, ho-3. Logan Smith, Leona, ho-3. Logan Smith, Marian L. ho-F. Logan Smith, Marian L. ho-F. Logan Smith, Ralph A. ae-2. Logan Smith, Ralph A. ae-2. Logan Smith, Ray, a-S. Salt Lake Smith, Willis, a-So. Salt Lake
Smith, Clifford, c-4. Smithfield Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J. Logan Smith, Ethel S., g-O. Salt Lake Smith, Fera L., a-w. Draper Smith, Gladys W., c-O. Logan Smith, Golden G., a-w Logan Smith, Heber L. a-So. Logan Smith, Irene, ho-2. Logan Smith, Jacob I., ma-w Logan Smith, James C., g-F. Centerville Smith, Joseph E., a-w Lefi Smith, Leslie A., g-G. Logan Smith, Leona, ho-3. Logan Smith, Leona, ho-3. Logan Smith, Marian L. ho-F. Logan Smith, Marian L. ho-F. Logan Smith, Ralph A. ae-2. Logan Smith, Ralph A. ae-2. Logan Smith, Ray, a-S. Salt Lake Smith, Willis, a-So. Salt Lake
Smith, Clifford, c-4. Smith, David W., a-J. Salt Lake Smith, Douglas, ae-w. Heber City Smith, Edwin S., a-J. Logan Smith, Ethel S., g-O. Salt Lake Smith, Fera L., a-w. Draper Smith, Gladys W., c-O. Logan Smith, Golden G., a-w Logan Smith, Heber L. a-So. Logan Smith, Irene, ho-2. Logan Smith, Jacob I. ma-w. Logan Smith, Jacob I. ma-w. Logan Smith, Joseph E., a-w. Lehi Smith, Leslie A., g-G. Smith, Leona, ho-3. Smith, Leona, ho-3. Smith, Marian L. ho-F. Logan Smith, Marian L. ho-F. Logan Smith, Ralph A. ae-2. Logan Smith, Ralph A. ae-2. Logan Smith, Ruby, ho-So. Salt Lake Smith, Ruby, ho-So. Sold Logan Smith, Ruby, ho-So. Salt Lake Smith, Willis, Alvin c-Sp.

Sorensen, Lettie C., ss	
Scholes, Caroline, g-OLogan	
Schow, Randal, a-wLehi	
Schow, Randal, a-w	
Showell, T. W., ssLogan	
Sjoberg, Lawrence E., ma-wMillville	
Sjostrom, Joseph E., ac-FLogan	
Snow, Emma, ss	
Snow, Joseph H., a-S	
Show, Martin I - C	
Stone, Merlin J., a-SOgden	
Stott-Orval, a-SoMeadow	
Shumway, Richard, ss	
Shurtliff, Esther, ssOgden	
Squires Ada ss	
Squires, Ada, ss. Ogden Stuart, Sadie, ssWellsville	
Stuart, Sadie, SS	
Stucki, Herman, a-GSanta Clara	
Taggart, Harriet J., ho-SoOgden	
Tanner, Byron S., a-SoLogan	
Tanner, LeRoy, a-I	
Tanner, Wellsby, g-pSalt Lake	
Tarbet, Florence, ssLogan	
Total Peter 7 to 1 1 2 2	
Tarbet, Zella, ho-2Logan	
Taylor, Anna K., ho-FProvo	
Taylor, Asael J., a-SWillard	
Thackeray, W. M., a-SoCroydon	
Thain Aldyth g-F	
Thain, Aldyth, g-F. Logan Thain, George W., ae-2. Logan	
Thain, Wilber E., c-SLogan	
Tham, Wilber E., C-5	
Thatcher, Frank D., a-JLogan	
Thatcher, Mrs. G. W., gLogan	
Thatcher, Helen, ho-2Logan	
Thatcher, Hannah, ho-2	
Thatcher, Nettie, ho-SoLogan	
Thatcher, Nathan D., a-SoLogan	
Thatcher, Patience, ho-2Logan	
Thatcher, Fatience, no-2	
Tidwell, Leonard, ae-pMoroni	
Titus, Lawrence E., a-JSalt Lake	
Toombs, Jno. C., c-3Logan	
Toombs, Melverne H., ma-wLogan	
Toyey Jane I. σ -2 Briston Mont.	
Tovey, Jane L., g-2	
Toyey, Wm. D., a-2	
Tovey, Wm. D., a-2. Briston, Mont. Thomas, Alvin J., c-2. Samaria, Idaho	
Tovey, Wm. D., a-2. Briston, Mont. Thomas, Alvin J., c-2. Samaria, Idaho Thomas, Flyin D., a-3. Plain City	
Tovey, Wm. D., a-2. Briston, Mont. Thomas, Alvin J., c-2. Samaria, Idaho Thomas, Elvin D., a-3. Plain City Thomas, Fred W., c-2. Logan	
Tovey, Wm. D., a-2	
Tovey, Wm. D., a-2	
Tovey, Wm. D., a-2. Briston, Mont. Thomas, Alvin J., c-2. Samaria, Idaho Thomas, Elvin D., a-3. Plain City Thomas, Fred W., c-2. Logan Thomas, Henry J., ma-w Wales Thomas, Inez, ss. Ogden	
Tovey, Wm. D., a-2. Briston, Mont. Thomas, Alvin J., c-2. Samaria, Idaho Thomas, Elvin D., a-3. Plain City Thomas, Fred W., c-2. Logan Thomas, Henry J., ma-w Wales Thomas, Inez, ss. Ogden Thomas, Preston, a-S. Plain City	
Tovey, Wm. D., a-2. Briston, Mont. Thomas, Alvin J., c-2. Samaria, Idaho Thomas, Elvin D., a-3. Plain City Thomas, Fred W., c-2. Logan Thomas, Henry J., ma-w Wales Thomas, Inez, ss. Ogden Thomas, Preston, a-S. Plain City Thomas Terese ss. Preston, Idaho	
Tovey, Wm. D., a-2. Briston, Mont. Thomas, Alvin J., c-2. Samaria, Idaho Thomas, Elvin D., a-3. Plain City Thomas, Fred W., c-2. Logan Thomas, Henry J., ma-w Wales Thomas, Inez, ss. Ogden Thomas, Preston, a-S. Plain City Thomas, Terese, ss. Preston, Idaho Thomas Terese, ss. Sanpete	
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Turner, Geo. C., c-SpLogan	
Turner, Wm. J., c-pLogan	
Tuttle, Leonard W., a-2Manti	
Testala I land a I	
Tuttle, Lloyd, a-J	Ĺ
Thurman, David J., ssOgden	1
Vance, Victor, a-wDickey, Idaho	,
Van Lenven, Perry, ma-So	
Voorhees, Glenn L., g-SoManti	
Wadley, Jos. D., c-F	
Wahlen, Julius O., ae-3Logan	
Wallell, Julius O., ac-3Logan	
Walker, Florence, ss	ı
Walker, Jno. B., a-JSandy	
Wallace, Jonathan A., g-FOgden	
Wallace, Jonathan A., g-F. Ogden Walton, Olive, ss. Coalville	
Wangsgard, Ernest, ss	
Ward Raymond O 2-F	
Ward, Raymond O., a-F. Logan Warnick, Adolphus P., a-S. Pleasant Grove	
Warnick, Adolphus F., a-5Pleasant Grove	
Warnick, Effie, ho-S	
Warr, Clara E., ssKamas	
Watkins, Aurilla, g-OBrigham	
Watto, Vyron M., c-SpSmithfield	
Whatcott, W. H., ssTremonton	
Webb, Effie, ho-J	
Webb, Heber J., ssLogan	
Webb, fieber J., ss	
Webster, Mozelle, ho-3Logan	
Wells, Ida M., ss	
West, Chas. H., a-SOgden	
West, Clement W., a-2Ogden	
West, Thelma, ho-2	
West, Thelma, ho-2Logan Weston, Estella, ho-SpLogan	
Weston, Rose L., ss	
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Widmer, Samuel E., ma-2Logan	
Willard, Edna G., g-SStrong, Maine	
Williams, Kenith, ssEphraim	
Willie Leone, a-So	
Willie, Maud, ssMendon	
Williams, Howell M., g-3	
Williams, Hugh, a-JSalt Lake	
Williams Data ma 2	
Williams, Robt., ma-3	
Williams, Roland, a-wMonroe	
Williamson, Lowell, a-SpSalt Lake	
Willmore, Benjamin F., c-2Logan	
Wilson, Alma L., a-So	
Wilson, Leroy A., a-SpSandy	
Wilson, Vanes, ma-2River Heights	
Wilson Wilford ma W	
Winson, willord, ma-wrayson	
Winget, Glen a-F. Monroe	
WIIII. RODL. E., a-3	
Winters, Nina, ss	
Wintle, Daisy, ssOgden	
Wintle, Ino. W., ssOgden	
White Etelka ho-So Beaver	
White, Etelka, ho-So. Beaver White, Edgar, ss. Beaver	

1371-14 - T	T
White, Leroy, a-w	Farmington
White, Lola B., ss	Springville
Whitear, Frank L., a-2	
Whitworth, Jesse J., a-p	Richmond
Wright, Coulsen C., ae-wB1	umington, Idaho
Wright, Jno. W., a-So	Hinckley
Wrigley, Robt., ss	Cedar City
Wood Alvira, ho-Sp	Huntsville
Wood, Frederick C., ss	Park City
Wood, Karl, ss	
Wood, Selma A., ho-2	Huntsville
Woodbury, Max W., ss	Ogden
Woodland, Mary, ho-Sp	
Woodruff, Avery C., ss	Farmington
Woodside, Clyde, c-2	Logan
Woodside, Jean, ho-S	Logan
Woodside, Wm. A., ac-F	Logan
Woodward, Frank E., c-2	
Woollar Ethal ha 2	Crantovilla
Woolley, Ethel, ho-3	
Woolley, Jno. F., a-F	
Woolley, Moroni, g-F	
Woolley, Ralph E., ae-G	
Woolley, W. G., ss	
Woolf, Eva, c-J	
Woolf, Grace, ss	
Woolf, Ruby, ho-Sp	
Worley, Margaret, g-Sp	
Wurston, Herman, ma-w	
Young, Nelson A., a-2	
Young, Ernest T., a-S	
Young, Mary, ss	Brigham

SUMMARY OF ATTENDANCE

	Agr.	Agr. Engnr.	Сошш.	Gen'l Science	Home Econom.	Mech.	Special (Music)	TOTAL	GRAND
COLLEGE: Graduates Seniors Juniors Sophomores Freshmen Specials	8 50 34 59 24 9	1 4 5 16 4	4 11 11 12 13 10	10 11 5 12 13 10	11 18 26 21 39	2 2 5 3 1	1	23 89 75 130 80 70	
	184	30	61	61	115	13	1		467
HIGH SCHOOL: Third Year Second Year Practical Course. Optionals Winter Course	41 30 11 3 44	2 7 2	15 27 14 1 1 7	9 12 1 1 16 5	19 30 2	2 13 4		88 119 34 20 78	
	129	11	64	43	51	41			339
Summer School 1913. 268 Correspondence Department 159									
Less names repeated	d							-	1,233
		Net t	otal.						.1,138
ROUND-UP	AND	HOU	SEKI	EEPE	CRS' (CONF	ERE	NCE	
								417	1,305
								207	783
		Net t	ota1						. 2,088

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ILLUSTRATED

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OF UTAH



